

NC Department of Health and Human Services | June 2024





Annual Report 2021

North Carolina Department of Health and Human Services Division of Public Health, Injury and Violence Prevention Branch

June 2024

This report was supported in part by Cooperative Agreement Number 5NU17/CE924955-02-00 from the Centers for Disease Control and Prevention. Its contents are solely the responsibility of the authors and do not necessarily represent official views of the Centers for Disease Control and Prevention.

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Executive Summary

North Carolina Violent Death Reporting System, 2021

The North Carolina Violent Death Reporting System (NC-VDRS) is a Centers for Disease Control and Prevention (CDC) - funded, state-wide surveillance system that collects detailed information on deaths that occur in North Carolina resulting from violence, specifically homicide, suicide, unintentional firearm injuries, legal intervention, and those deaths for which the intent could not be determined. The system is a relational database and compiles information on the victims, suspects and circumstances surrounding each violent death. NC-VDRS is a multi-source system that gathers information from death certificates, medical examiner reports and law enforcement reports. Collection of this information has created a better understanding of the circumstances surrounding violent deaths that occur in North Carolina. The goal of the system is to aid researchers, legislators, and community interest groups in the development of public health prevention strategies to reduce violent deaths. This report summarizes the violent deaths of North Carolina residents that occurred in 2021.

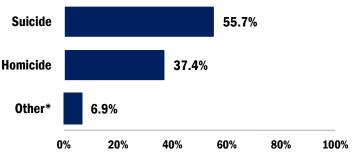
Overall Violent Deaths

In 2021, 2,537 North Carolina residents (24.0 per 100,000) died as a result of violence. The leading causes of violent death were suicide (55.7%) followed by homicide (37.4%) **(Figure i)**. Leading methods of violent death were firearm (70.1%), hanging, strangulation or suffocation (13.1%), and poisoning (7.5%). The most common firearms involved in firearm deaths were handguns (75.6%), shotguns (7.3%), and rifles (9.6%).

Males were 4.0 times as likely to die from violence as women (38.9 vs. 9.7 per 100,000, respectively) (Figure ii). The violent death rates per 100,000 victims from highest to lowest by race/ethnicity were non-Hispanic (NH) American Indian (42.7), NH Black (35.9), NH White (22.5), Hispanic (16.5), and NH Asian (8.1).

Adults from ages 15 to 54 years had the highest violent death rates by age per 100,000 as follows: 20 to 24 (40.3), 25 to 34 (38.5), 15 to 19 (31.3), 35 to 44 (27.6), and 45 to 54 (26.8). The violent death rate trend by age differed by sex, with male victims showing higher rates than female victims across nearly all age groups (Figure iii).

Figure i: Manner of violent death in North Carolina, 2021



* Other includes undetermined intent, legal intervention and unintentional firearm

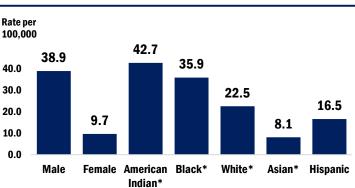


Figure ii: Overall violent death rates by sex and race/ethnicity in North Carolina, 2021

* Non-Hispanic

Note: The number of homicide deaths for sex and race/ethnicity was high enough to support a rate calculation.

Executive Summary

Suicides

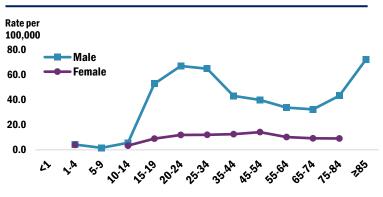
Suicide was the cause of death for 1,412 North Carolinians (15.4 per 100,000) in 2021. The most common method of suicide was firearm (63.8%), followed by hanging, strangulation, or suffocation (22.2%), and poisoning (8.4%). A handgun was the most common firearm, involved in 80.2% of suicide firearm deaths. Opiates were the most common substance category present in suicide poisonings (34.5%), followed by antidepressants (27.7%) and anticonvulsants (21.8%).

Men were 4.4 times more likely to die from suicide than women (25.0 versus 5.7 per 100,000, respectively) **(Figure iv)**. Among suicide victims, 80.8% were male, and 78.5% were NH White. The suicide rate per 100,000 was highest among NH Whites (18.7) and NH American Indians (15.4), and lower among Hispanics (10.7), NH Blacks (8.5), and NH Asians (7.7).

The age group with the highest suicide rate was those 85 and older (24.8 per 100,000), followed by ages 75 to 84 (20.3 per 100,000) and ages 20 to 24 (18.8 per 100,000). The suicide rate was higher for men than women across all age groups, however men ages 85 and older were at greatest risk with a rate of 70.3 per 100,000 (Figure v).

The most common circumstances of suicide were having ever been treated for mental illness (61.4%), current mental health problem (60.6%), a recent crisis (44.7%), a history of suicidal thoughts (32.1%), and current treatment for mental illness (28.8%). Most with a current mental health problem had depression (78.6%). Other common circumstances of suicide were problems with an intimate partner (27.3%), physical health problem (23.0%), an alcohol problem (16.2%), or other substance abuse problem (18.5%).

Figure iii: Overall Violent Death Rates in North Carolina: Age Group by Sex, 2021



Note: The number of deaths was too small to support a rate calculation for male infants younger than one and female infants younger than one, ages 5-9, and 85 and older.

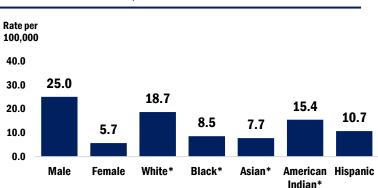
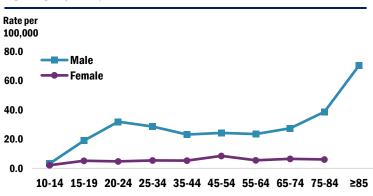


Figure iv: Suicide rates by sex and race/ethnicity in North Carolina, 2021

* Non-Hispanic

Note: The number of suicide deaths for sex and race/ethnicity was high enough to support a rate calculation.

Figure v: Suicide rates in North Carolina: Age group by sex, 2021



Note: The number of suicide deaths was too small to support a rate calculation for female ages 85 and older.

Of the 91.4% of suicide victims tested, 25.8% had alcohol present at the time of death. Most (76.7%) injuries resulting in suicide occurred in a house or apartment.

Homicides

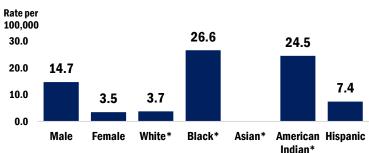
A total of 950 North Carolinians (9.0 per 100,000) were homicide victims in 2021. Firearms (85.5%) and sharp instruments (6.4%) were the most common homicide methods. Handguns accounted for 71.6% of firearms used in homicide firearm deaths.

Men accounted for 80.3% of homicide victims and were 4.2 times more likely to die from homicide than women (14.7 vs. 3.5 per 100,000, respectively) **(Figure vi)**. Unlike suicide rates, homicide rates were higher among NH Black (26.6 per 100,000) and NH American Indian (24.5 per 100,000) than in NH White (3.7 per 100,000), and Hispanic (7.4 per 100,000) victims.

Homicide rates were highest in the following age groups: 20 to 24 years (19.9 per 100,000), 25 to 34 years (18.7 per 100,000), and 15-19 years (17.6 per 100,000). Males had a higher homicide rate across all age groups. **(Figure vii)**. Among 20to 24-year-olds, the homicide rate was 5.6 times greater among males than females.

The most common event circumstances surrounding homicides were an argument, abuse, or conflict (42.1%), precipitated by another serious crime (28.9%), intimate partner violence-related (17.2%), and drug involvement (15.6%). Homicides occurred most often in a house or apartment (54.0%), a motor vehicle (16.6%), or a street, road, sidewalk, or alley (9.1%).

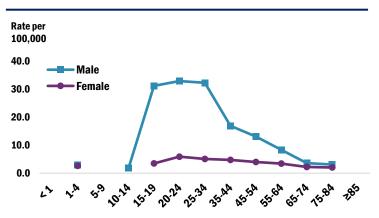
Figure vi: Homicide rates by sex and race/ethnicity in North Carolina, 2021



* Non-Hispanic

Note: The number of homicide deaths was too small to support a rate calculation for NH Asians.

Figure vii: Homicide rates in North Carolina: Age group by sex, 2021



Note: The number of homicide deaths was too small to support a rate calculation for male infants younger than one, ages 5-9, and 85 and older, and female infants younger than one, ages 5-9, ages 10-14, and 85 and older.

Firearm Violent Deaths

Most violent deaths involve a firearm. In 2021, there were 1,779 firearm deaths, accounting for 70.1% of all violent deaths. Most firearm violent deaths were suicides (50.7%), followed by homicides (45.6%) (**Figure viii**).

Males were more likely than females to experience a violent death with a firearm (29.1 per 100,000 versus 5.0 per 100,000, respectively). Handguns were the most common type of firearm used (75.5%).

Executive Summary

Overall firearm death rates are highest among NH American Indian (35.4 per 100,000) and NH Black (30.5 per 100,000) victims, followed by NH White (14.1 per 100,000), Hispanic (10.7 per 100,000), and NH Asian (4.5 per 100,000) victims.

Firearm death rates were highest among ages 20 to 24 (32.1 per 100,000) and ages 25 to 34 (28.0 per 100,000).

Firearm Suicide

Firearms were used in 63.8% of the 1,412 suicides in 2021 (N=901). The most commonly used firearm type was a handgun (80.2%).

Males were 6.6 times more likely than females to die from firearm suicide (17.0 versus 2.6 per 100,000). NH White victims had the highest firearm suicide rate (12.0 per 100,000). This was 2.0 times greater than the firearm suicide rate among NH Black (6.0 per 100,000) victims.

Firearm suicide rates were highest among adults ages 85 and older and 75 to 84 (20.0 and 16.6 per 100,000). Among males, firearm suicide rates were highest for those 85 and older (55.9 per 100,000), whereas for females, the firearm suicide rate was highest among those ages 55-64 (3.3 per 100,000).

Firearm Homicide

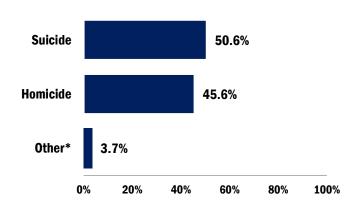
A total of 812 North Carolinians were victims of firearm homicide in 2021. Firearm homicides accounted for 85.5% of all homicide incidents. Handguns were the most common firearm type (71.6%).

Males were 5.1 times more likely than females to be a victim of firearm homicide (14.7 and 2.9 per 100,000 respectively). Males ages 20 to 24 were 5.8 times more likely to die from firearm homicide than females of the same age (31.1 and 5.3 per 100,000 respectively).

NH Black (27.6 per 100,00) and NH American Indian (26.7 per 100,000) victims had higher firearm homicide rates than Hispanic (7.0 per 100,000) and NH White (3.0 per 100,000).

Firearm homicide rates were highest among those ages 20 to 24 (18.6 per 100,000) and 25 to 34 (17.5 per 100,000).

Figure viii: Manner of violent death among firearm deaths in North Carolina, 2021



* Other includes unintentional firearm, firearm legal intervention, and firearm deaths of undetermined intent.

Unintentional Firearm Deaths

In 2021, 32 North Carolinians (0.3 per 100,000) died from a firearm injury sustained in a shooting not intentionally directed at the victim. Handguns (71.9%) were most commonly involved in unintentional firearm deaths, followed by shotguns (15.6%) and rifles (12.5%); the type of firearm was unknown in 0.0% of unintentional firearm deaths.

In 2021, there were 25 firearm legal intervention deaths (1.4%) and 9 firearm deaths of undetermined intent.

Legal Intervention

Thirty-two North Carolina residents died in 2021 from legal intervention. These victims were killed by police or other law enforcement officers acting in the line of duty. Most legal intervention victims were male (96.9%), all victims were from 20 to 74 years of age, and over half were NH White (59.4%). All but seven legal intervention deaths occurred by firearm; of the total firearms involved (n=28), handguns were used most frequently (42.9%).

Child Violent Deaths

In North Carolina in 2021, 168 children (7.4 per 100,000) ages 0 to 17 died from violence. Homicide (51.2%) and suicide (36.3%) and were the leading causes of child violent death (**Figure ix**). Firearm (70.2%), hanging, strangulation, or suffocation (12.5%), and personal weapons (4.8%) were the most common methods of child death.

Male children were 2.6 times as likely to be victims of violent death as female children (10.6 vs. 4.0 per 100,000, respectively). The violent death rate per 100,000 was 3.7 times higher for NH Black children (16.9 per 100,000) than for NH White children (4.6 per 100,000).

*Personal weapons include hands, fists, and feet.

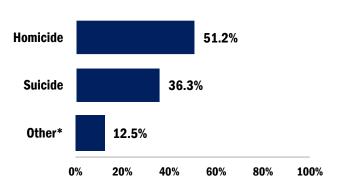
Undetermined Intent

A total of 111 deaths of undetermined intent (1.1 per 100,000) were reported in North Carolina in 2021. The leading methods of undetermined intent deaths were poisoning (64.0%), firearm (8.1%), and blunt instrument (8.1%).

Violent Deaths Over Time

The overall violent death rate in North Carolina remained fairly stable from 2012 to 2021, averaging 21.3 per 100,000 per year. The overall violent death rate was 19.9 per 100,000 in 2012, 18.8 per 100,000 in 2010, and 24.0 per 100,000 in 2021.

Figure ix: Manner of violent death among children in North Carolina, 2021



* Other includes undetermined intent and unintentional firearm.

NC-VDRS Data Dashboard

The interactive NC-VDRS Data Dashboard was launched in November of 2021 and provides aggregate information on violent deaths for all 100 counties in North Carolina from 2004 through 2021.

The dashboard can be accessed <u>here</u>, or with the following QR code:



Executive Summary

Introduction

In 2021, there were more than 48,183 suicides and 26,031 homicides nationwide, many of which were preventable. In North Carolina, more than 20,535 residents died from suicide or homicide in the 10-year period from 2012 to 2021. In that same period, suicide and homicide ranked as the state's twelfth and seventeenth leading causes of death, respectively. Among specific age groups, violent death constitutes an even greater risk. In North Carolina in 2021, suicide was the second leading cause of death for children ages 10 to 14. Suicide was the third leading cause of death for young adults ages 15 to 24 and adults ages 25 to 34, and the fifth leading cause for adults ages 35 to 54. Homicide was the state's fourth leading cause of death for children ages 10 to 34. In addition, violent death rates show disparities by sex, race, and ethnicity. For males in North Carolina in 2021, suicide was the tenth leading cause of death in NH Blacks, and suicide was the thirteenth leading cause of death in NH Blacks, and suicide was the thirteenth leading cause of death in NH Whites in North Carolina in 2021. Among Hispanics in North Carolina, suicide and homicide were respectively the seventh and eighth leading causes of death in 2021.

This report provides comprehensive information on the characteristics and circumstances of violent death victims and incidents within North Carolina, using data from the North Carolina Violent Death Reporting System (NC-VDRS). For the purpose of this report, violent deaths include homicide, suicide and legal intervention as well as deaths of undetermined intent and from unintentional firearm injuries. The NCDHHS Division of Public Health, Injury and Violence Branch would like to acknowledge that generations of social, economic, and environmental inequities contribute to disparities in violent deaths. When interpreting the data, it is crucial to recognize and acknowledge these systemic, avoidable, and/or unjust factors. Although the purpose of this report is not to analyze these factors, the <u>CDC</u> and the <u>US Department of Health and Human Services</u> have compiled resources on social determinants of health, and the <u>North Carolina State Center for Health Statistics dashboard</u> has social determinants of health data publicly available that is specific to North Carolinians. These and other resources can provide important context on community and societal level factors that contribute to disparities in violence-related deaths.

The NC-VDRS is a CDC-funded public health, population-based surveillance system that contains detailed information on deaths that result from violence. Operated by the North Carolina Division of Public Health's Injury and Violence Prevention Branch, it provides injury and violence prevention specialists and policymakers detailed information on the victims, suspects, relationships, circumstances, and weapons that are associated with every incident of violence that results in a fatality in North Carolina. The NC-VDRS is an incident-based, relational database that combines data from multiple sources such as death certificates, medical examiner reports and incident reports from law enforcement agencies. The NC-VDRS began collecting data on January 1, 2004.

The NC-VDRS is part of a larger, national system developed by the National Center for Injury Prevention and Control at CDC. In 2002, Congress appropriated \$1.5 million to create the National Violent Death Reporting System (NVDRS) to implement a nationwide surveillance system on deaths from violence. NVDRS is built on the knowledge gained from a firearm reporting system developed at the University of Wisconsin and the National Violent Injury Statistics System (NVISS, operated by the Harvard Injury Control Research Center). Participation in NVDRS is through competitive cooperative agreements. North Carolina was awarded funding in August 2003. Currently, all 50 states, the District of Columbia, and Puerto Rico submit data to NVDRS. This annual report for the NC-VDRS presents statistics on deaths from violence to North Carolina residents during the period of January 1, 2021, to December 31, 2021. The 2021 data file used for this report was generated in August 2023. Note that if changes are made to the 2021 data in NC-VDRS after this date, the 2021 violent death data could change in future reports. Improvements were made to the NC-VDRS case definitions to capture NC violent deaths more accurately. Starting with the 2020 annual report, there may be slight differences in counts and rates for previous data years compared to data included in previously published NC-VDRS data products.

A glossary of the terms used in this report is shown in Appendix C.

Methods

Case Identification

This report provides a comprehensive summary of all violent deaths among residents of North Carolina during 2021. Violent deaths are captured by data abstractors using multiple, complementary data sources that include:

- Death Certificates obtained from North Carolina's State Center for Health Statistics.
- **Chief Medical Examiner Reports** obtained from the NC Office of the Chief Medical Examiner which is required to evaluate all violent deaths in North Carolina.
- Law Enforcement Reports obtained from more than 200 local law enforcement agencies across the state and the North Carolina State Bureau of Investigation.



In most cases, the sources provide a unanimous categorization for the manner of death. However, in cases where a discrepancy occurs, the abstractor assigns a manner of death for which there is a preponderance of evidence from all sources. This classification must agree with at least one of the primary data sources listed above. These deaths must also correspond with the International Classification of Disease codes, version 10 (ICD-10), to be selected as cases for the NC-VDRS.

Operational Definition: ICD-10 Codes that Define NC-VDRS Cases

Manner of Death	Death < 1 year after injury	Death \geq 1 year or more after injury		
Intentional self-harm	X60-X84	Y87.0		
Assault	X85-X99, Y00-Y09	Y87.1		
Undetermined Intent Y10-Y34		Y87.2, Y89.9		
Unintentional firearm	W32-W34	Y86 (guns)		
Legal intervention Y35.0-Y35.7		Y89.0		
Terrorism	U01, U03	U02		

Methods

These data are received electronically from the medical examiner and death certificate sources and imported into NC-VDRS. Data not received electronically are obtained by hard-copy file and manually entered by the NC-VDRS abstraction team. Data are routinely evaluated for quality by the program manager. Quality control procedures ensure that the data are as accurate and complete as possible. Quality control measures include, but are not limited to:

- Review of death certificate and medical examiner data to determine whether cases meet NVDRS eligibility criteria;
- Review of death certificate data and medical examiner data to identify inconsistent manner of death or ICD-10 codes;
- Assessment of data completeness, especially manner of death;
- Evaluation of data entry errors, including comparison against electronic death certificate data;
- Documentation of coding errors; and
- Assessment of narrative completeness.

Defining Manner of Death

The NC-VDRS conceptually defines a violent death as a death due to "the intentional use of physical force against oneself, another person, or against a group or community." Deaths meeting this definition include intentional deaths, such as:

- Suicide A death resulting from the intentional use of force against oneself. A preponderance of evidence should indicate that the use of force was intentional. Suicides are classified among violent deaths only for people ages 10 or older.
- **Homicide** A death resulting from the intentional use of force or power, threatened or actual, against another person, group, or community. A preponderance of evidence must indicate that the use of force was intentional.
- Legal Intervention A death when the decedent was killed by a police officer, military police officer or other peace officer (person with specified legal authority to use deadly force) acting in the line of duty. Legal executions are not included in the national system (NVDRS) but are reported in the state system (NC-VDRS) as legal intervention deaths.

The database also captures deaths from unintentional firearm injuries and deaths with undetermined intent. These deaths are defined as:

Unintentional Firearm – A death resulting from a penetrating injury or gunshot wound from a
weapon that uses a powder charge to fire a projectile and for which a preponderance of evidence
indicates that the shooting was not directed intentionally at the decedent. Because most firearm
deaths are intentional, unintentional firearm deaths are included in the data system so that they
can be reviewed to identify patterns for injury prevention. This category also includes a child
under the age of six who shoots himself or another person, as children under the age of six are
presumed not to have developed the ability to intentionally harm themselves or others.

• Undetermined Intent – A death resulting from the use of force or power against oneself or another person for which the evidence indicating manner of death was not sufficient to determine intent.

The national and state violent death reporting systems are the official repository of deaths from terrorism. Deaths in North Carolina from an act of terrorism would be listed as a homicide or suicide in the NC-VDRS.

Analysis

This report provides three main types of analytic data on violent deaths in North Carolina: 1) number of deaths for each violent death category; 2) percent of total deaths for each manner of death and by specific demographic characteristics; and 3) rate of violent deaths for each manner of death and by demographic characteristics, where possible. Demographic characteristics include age, sex, race/ethnicity, years of completed education, marital status, and North Carolina county of residence.

The rate of violent death is calculated as the number of deaths during the specified time per 100,000 North Carolina residents in the same category (rate = [number of deaths x 100,000/population]). Rates were calculated using bridged North Carolina population data (vintage 2021) from the National Center for Health Statistics. The numbers of the total North Carolina population and children by demographic characteristic are available in Appendix B. Unless otherwise stated, a child is a person under 18 years of age.

Resident vs. Occurrent Deaths

The NC-VDRS captures data on all violent deaths that occur in the state.

- **Resident deaths** are those in which the victim was a North Carolina resident at the time of death, and the death occurred in North Carolina (N=2,537).
- **Occurrent deaths** capture all deaths that occur within North Carolina during the specified time, regardless of the residential status of the decedent (N=2,595).

The data in this report are restricted to resident deaths. All victims included in the analyses were classified as residents of North Carolina at the time of death.

Data Use Caveat

All findings in the report are based on rigorous data collection and analysis. However, counts that are small (fewer than 20) must be interpreted with caution, particularly when they are used in the calculation of death rates. Small numbers, even if they are not used in the calculation of rates, have substantial variation over time (i.e., a large standard error). This report presents mortality rates for cases where there are at least five deaths; however, rates for counts fewer than 20 should be interpreted with extreme caution when making comparisons or assessing trends over time. An asterisk (*) in the rate cell indicates the number of death was too small to support the calculation of a rate. A good way of determining significance of death rates is to evaluate the 95% confidence interval (95% CI). The wider the confidence interval (i.e., the greater the difference between the lower and upper bounds of the confidence interval), the less accurate the rate is, and therefore, more caution should be employed when using the data.

NC-VDRS Data Dashboard

The NC-VDRS Data Dashboard was launched in November of 2021 and provides aggregate information on violent deaths for all 100 counties in North Carolina from 2004 through 2021. The interactive dashboard was created to make data more accessible to public health partners to inform the development, implementation, and evaluation of prevention efforts around violence and safety. Data are broken out by demographic group, including sex, race/ethnicity, and age group, and provide information by manner, mechanism, geographic area, and circumstances surrounding these deaths. Additionally, data from the figures and tables can be downloaded from the dashboard to support additional analysis and use for informing violence prevention efforts.

The dashboard can be accessed <u>here</u>, or with the following QR code:



For more information on how to use the NC-VDRS Data Dashboard, please see the <u>NC-VDRS Dashboard User Guide</u> which includes frequently asked questions about the data dashboard, or the <u>How-to video</u> which provides detailed information on how to navigate between the pages of the dashboard and filter the data.

Acknowledgements

The NC-VDRS is funded by the National Center for Injury Prevention and Control at the CDC and is operated by the Injury and Violence Prevention Branch, Division of Public Health, NC Department of Health and Human Services. This annual report was supported in part by CDC Cooperative Agreement Number 5NU17/CE924955-02-00. Its contents are solely the responsibility of the authors and do not necessarily represent official views of the CDC.

We thank and acknowledge the ongoing support and assistance of the North Carolina State Center for Health Statistics, North Carolina Office of the Chief Medical Examiner, Mecklenburg Office of the Chief Medical Examiner, North Carolina State Bureau of Investigation, and many local law enforcement agencies throughout North Carolina that have provided information to the NC-VDRS. Without these key data partners, the NC-VDRS would not be as credible or strong. The law enforcement agencies that provided data for this report are:

Alamance County Sheriff's Office Albemarle Police Department Alexander County Sheriff's Office Alleghany County Sheriff's Office **Angier Police Department** Anson County Sheriff's Office Apex Police Department Asheboro Police Department Asheville Police Department Avery County Sheriff's Office Beaufort County Sheriff's Office Benson Police Department Bertie County Sheriff's Office **Beulaville Police Department Black Mountain Police Department** Bladen County Sheriff's Office **Brevard Police Department Brunswick County Sheriff's Office Buncombe County Sheriff's Office** Burke County Sheriff's Office **Burlington Police Department** Cabarrus County Sheriff's Office Caldwell County Sheriff's Office Carteret County Sheriff's Office **Cary Police Department** Caswell County Sheriff's Office Catawba County Sheriff's Office Chapel Hill Police Department Chatham County Sheriff's Office Cherokee County Sheriff's Office Cherryville Police Department **Clay County Sheriff's Office Clayton Police Department Cleveland County Sheriff's Office Clinton Police Department Clyde Police Department** Charlotte Mecklenburg Police Department **Columbus County Sheriff's Office**

Concord Police Department Conover Police Department Cornelius Police Department Craven County Sheriff's Office **Cumberland County Sheriff's Office Currituck County Sheriff's Office Dallas Police Department** Davidson County Sheriff's Office Davie County Sheriff's Office **Dunn Police Department Duplin County Sheriff's Office Durham County Sheriff's Office** Durham Police Department Eden Police Department Edenton Police Department Edgecombe County Sheriff's Office Elizabeth City Police Department Elkin Police Department **Elon Police Department** Enfield Police Department Fairmont Police Department Fayetteville Police Department Fletcher Police Department Forest City Police Department Forsyth County Sheriff's Office Franklin County Sheriff's Office Franklinton Police Department Fuguay-Varina Police Department Garner Police Department Gaston County Police Department Gastonia Police Department Gates County Sheriff's Office **Gibsonville Police Department** Goldsboro Police Department Graham Police Department Granville County Sheriff's Office Greene County Sheriff's Office Greensboro Police Department

Acknowledgements

Greenville Police Department **Guilford County Sheriff's Office** Halifax County Sheriff's Office Harnett County Sheriff's Office Haywood County Sheriff's Office Henderson County Sheriff's Office Henderson Police Department Hendersonville Police Department Hertford County Sheriff's Office **Hickory Police Department High Point Police Department** Hillsborough Police Department Hoke County Sheriff's Office Huntersville Police Department Hyde County Sheriff's Office Iredell County Sheriff's Office Jackson County Sheriff's Office Jacksonville Police Department Johnston County Sheriff's Office Kannapolis Police Department Kernersville Police Department Kings Mountain Police Department **Kinston Police Department** Knightdale Police Department Laurinburg Police Department Lee County Sheriff's Office Lenoir County Sheriff's Office Lexington Police Department Lillington Police Department Lincoln County Sheriff's Office Littleton Police Department Longview Police Department Louisburg Police Department Lumberton Police Department Macon County Sheriff's Office Madison County Sheriff's Office Madison Police Department Maggie Valley Police Department Martin County Sheriff's Office Matthews Police Department Maxton Police Department McDowell County Sheriff's Office Mebane Police Department Mint Hill Police Department Mitchell County Sheriff's Office Monroe Police Department Montgomery County Sheriff's Office Moore County Sheriff's Office Mooresville Police Department Morehead City Police Department Morganton Police Department Morrisville Police Department

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Acknowledgements

Surry County Sheriff's Office Thomasville Police Department Topsail Beach Police Department Transylvania County Sheriff's Office Trent Woods Police Department Troy Police Department Tyrell County Sheriff's Office Union County Sheriff's Office Valdese Police Department Vance County Sheriff's Office Wadesboro Police Department Wake County Sheriff's Office Warren County Sheriff's Office Warren County Sheriff's Office Washington Police Department Wayne County Sheriff's Office Waynesville Police Department Weldon Police Department Whiteville Police Department Wilkes County Sheriff's Office Wilmington Police Department Wilson County Sheriff's Office Wilson Police Department Woodfin Police Department Winston Salem Police Department Yadkin County Sheriff's Office Yancey County Sheriff's Office Youngsville Police Department

NC-VDRS is fortunate to have a dedicated and professional staff. Program Manager Tammy Norwood oversees all operational aspects of the NC-VDRS and is chiefly responsible for data quality and program integrity. Data abstractors, Dana Dandeneau, April Allgood, Ahamefule Anyanwu, and Taylor Davis spend many hours compiling the data and constructing sound narratives to make North Carolina's system one of the best in the nation. Without their daily efforts throughout the years, the data and reports would not be as accurate or complete.

During 2021 and the period of the data close-out (2021-2023), the NC-VDRS Advisory Board provided input and assistance. A full listing of the advisory board is found in Appendix B. Special thanks to the steering committee consisting of Stephen Marshall and Anna Waller. Special acknowledgement to Glorina Stallworth and to the NC-VDRS advisory board members for their input, support, and continuing participation.

Section I: Overall Violent Deaths

Basic Characteristics of Violent Deaths

Table 1 describes violent death victims in North Carolina in 2021 by demographic characteristics of sex, race/ethnicity, and age. The 2021 overall rate of violent deaths per 100,000 people in North Carolina is displayed in **Figure 1** by sex and race/ethnicity and in **Figure 2** by age group.

Key Findings:

- A total of 2,537 North Carolinians (24.0 per 100,000) died as a result of violence in 2021.
- Males were 4.0 times as likely to die from violence as females (38.9 versus 9.7 per 100,000, respectively).
- Non-Hispanic (NH) American Indians had the highest violent death rate per 100,000 (42.7) followed by NH Blacks (35.9), NH Whites (22.5), Hispanics (16.5), and NH Asians (8.1).
- Adults ages 20 to 24 years had the highest violent death rate per 100,000 (40.3), followed by adults ages: 25 to 34 (38.5), 35 to 44 (27.6), 45 to 54 (26.8), and 85 and older (26.4).
- Among those under the age of 15, children less than one year old had the highest violent death rate (5.2 per 100,000).

Table 2 lists the manner and method of violent deaths in North Carolina in 2021. NC violent deaths in 2021 are presented in **Figure 3** by manner of death and in **Figure 4** by method of death. The type of firearm used in firearm violent deaths is shown in **Table 3**.

Key Findings:

- The leading causes of violent death were suicide (55.7%) followed by homicide (37.5%).
- The leading methods of violent death were firearm (70.1%), hanging, strangulation or suffocation (13.1%), and poisoning (7.5%).
- The most common firearm involved in violent firearm deaths was a handgun (75.6%).

Table 4 characterizes adult violent death victims (18 years or older) in North Carolina in 2021 by the number of years of completed education, marital status, and veteran status.

Key Findings:

- Most adult victims at least completed high school (78.7%) while 36.6% completed at least some college.
- Over one-fourth of adult violent death victims were married, in a civil union, or a domestic partnership (25.9%). Nearly one-half of adult violent victims were never married (47.2%). Fewer victims were divorced (17.3%) or widowed (4.6%).
- Military veterans accounted for 13.1% of North Carolina adult violent death victims in 2021.

Table 5 and **Figure 5** show the overall violent death rates in 2021 by North Carolina County of residence. County violent death rates should be interpreted with caution because the numbers of violent deaths by county are small and subject to variation. The number of deaths in 18 counties was too small to support a rate calculation (greater than zero, but less than 5).

Key Findings:

• For the 82 counties where the number of resident deaths was sufficient to support a rate calculation, the average rate of violent deaths by North Carolina County of residence was 29.4 deaths per 100,000 with a range from 12.9 to 73.3 deaths per 100,000.

Note: Rounding of percentages found in tables/figures may result in totals more or less than 100.

	Number	%	Rate	95% CI
Sex				
Female	522	20.6	9.7	8.9 - 10.5
Male	2,015	79.4	38.9	37.2 - 40.6
Race/Ethnicity				
White*	1,475	58.1	22.5	21.4 - 23.7
Black*	805	31.7	35.9	33.4 - 38.4
Asian*	29	1.1	8.1	5.1 - 11.0
American Indian*	47	1.9	42.7	30.5 - 54.9
Hispanic	172	6.8	16.5	14.1 - 19.0
Other/Unknown	9	0.4		
Age Group (Years)				
< 1	6	0.2	5.2	1.0 - 9.3
1-4	19	0.8	4.0	2.2 - 5.8
5-9	9	0.4	1.5	0.5 - 2.4
10-14	30	1.2	4.5	2.9 - 6.1
15 - 19	220	8.7	31.3	27.1 - 35.4
20 - 24	296	11.7	40.3	35.7 - 44.9
25 - 34	544	21.4	38.5	35.2 - 41.7
35 - 44	367	14.5	27.6	24.8 - 30.4
45 - 54	361	14.2	26.8	24.1 - 29.6
55 - 64	294	11.6	21.6	19.1 - 24.0
65 - 74	217	8.6	19.9	17.2 - 22.5
75 - 84	125	4.9	23.9	19.7 - 28.1
85 +	49	1.9	26.4	19.0 - 33.9
Total Deaths	2,537	100	24.0	23.1 - 24.9

Table 1: Demographics of violent death victims in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population

95% CI = 95 % Confidence Interval for the Rate

* Non-Hispanic

Note: The number of violent deaths for sex, race/ethnicity, and age was high enough to support a rate calculation

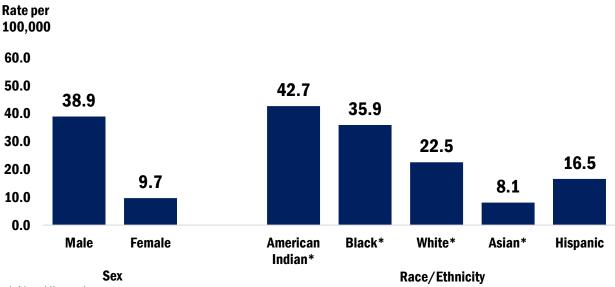


Figure 1: Crude overall violent death rates by sex and race/ethnicity in North Carolina, 2021

* Non-Hispanic

Note: The number of violent deaths for sex and race/ethnicity was high enough to support a rate calculation.

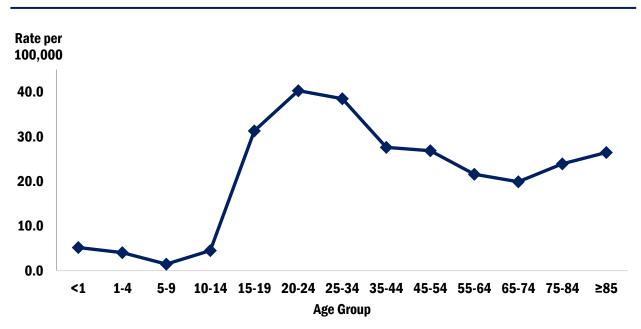


Figure 2: Age-specific crude overall violent death rates by age group in North Carolina, 2021

Note: The number of violent deaths for all ages was high enough to support a rate calculation.

	Number	%
Manner of Death		
Suicide	1,412	55.7
Homicide	950	37.5
Undetermined Intent	111	4.4
Legal Intervention	32	1.3
Unintentional Firearm	32	1.3
Method of Death		
Firearm	1,779	70.1
Hanging, Strangulation, Suffocation	333	13.1
Poisoning	190	7.5
Sharp Instrument	82	3.2
Blunt Instrument	34	1.3
Personal Weapons	26	1.0
Fall	25	1.0
Motor Vehicle	25	1.0
Fire or burns	14	0.6
Other Transport Vehicle	4	0.2
Drowning	15	0.6
Intentional Neglect	2	0.1
Violent Shaking	2	0.1
Other/Unknown	6	0.2
Total Deaths	2,537	100

Table 2: Manner and method of violent death in North Carolina, 2021

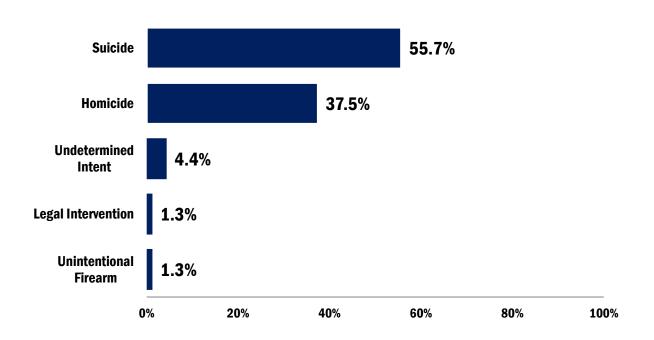
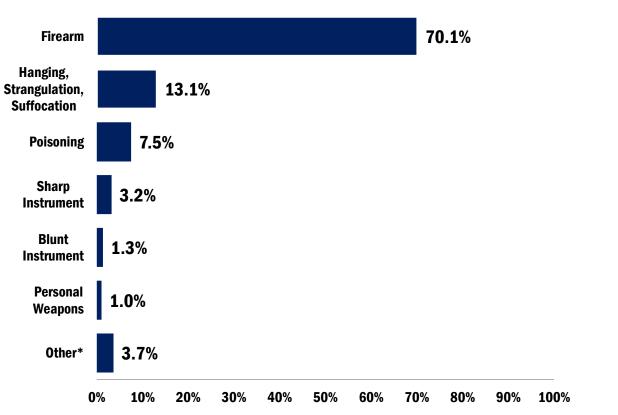


Figure 3: Manner of violent death in North Carolina, 2021

Figure 4: Method of violent death in North Carolina, 2021



* Other includes drowning, fall, motor vehicle, fire or burns, other transport vehicle, violent shaking, intentional neglect, and other/unknown.

	Number	%
Firearm Type*		
Handgun	1,350	75.6
Shotgun	130	7.3
Rifle	171	9.6
Other/Unknown Type	135	7.6
Total Firearms Involved, All Violent Deaths	1,786	100

Table 3: Type of firearm involved in violent firearm deaths in North Carolina, 2021

* Multiple firearm types were reported for seven violent firearm deaths; therefore, the total number of firearms exceeds the number of firearm deaths (n=1,779).

Table 4: Completed education, marital status, and veteran status of adult violent deathvictims (ages 18 or older) in North Carolina, 2021

	Number	%
Education Level		
8th Grade or Less	79	3.3
9th – 12th Grade	411	17.4
High school or GED graduate	996	42.0
Some college credit	372	15.7
Associate's degree	178	7.5
Bachelor's degree	227	9.6
Master's degree	72	3.0
Doctorate degree	19	0.8
Unknown	15	0.6
Marital Status		
Never Married	1,118	47.2
Married*	614	25.9
Divorced	410	17.3
Widowed	109	4.6
Married, but separated	96	4.1
Unknown	22	0.9
Veteran Status		
Non-Veteran	2,039	86.1
Veteran	311	13.1
Unknown	19	0.8
Total Adult Deaths (ages 18 or older)	2,369	100

*Married includes married, in a civil union or a domestic partnership

County	Number	Rate	County	Number	Rate	County	Number	Rate
Alamance	40	23.0	Franklin	27	37.6	Pamlico	7	56.7
Alexander	7	19.2	Gaston	64	27.7	Pasquotank	11	27.0
Alleghany	4	*	Gates	1	*	Pender	16	25.4
Anson	10	44.9	Graham	1	*	Perquimans	1	*
Ashe	12	44.8	Granville	21	34.2	Person	13	33.2
Avery	5	28.6	Greene	1	*	Pitt	31	18.0
Beaufort	13	29.3	Guilford	137	25.2	Polk	5	25.4
Bertie	8	45.9	Halifax	15	31.0	Randolph	39	26.9
Bladen	13	44.0	Harnett	35	25.8	Richmond	12	28.0
Brunswick	39	26.9	Haywood	18	28.8	Robeson	51	43.9
Buncombe	56	20.6	Henderson	27	23.1	Rockingham	24	26.3
Burke	20	22.8	Hertford	7	33.1	Rowan	48	32.4
Cabarrus	35	15.1	Hoke	11	20.7	Rutherford	16	24.8
Caldwell	32	39.7	Hyde	1	*	Sampson	16	27.1
Camden	2	*	Iredell	40	20.8	Scotland	17	49.7
Carteret	14	20.4	Jackson	8	18.8	Stanly	12	19.0
Caswell	2	*	Johnston	48	21.1	Stokes	15	33.6
Catawba	46	28.4	Jones	1	*	Surry	15	21.1
Chatham	14	17.9	Lee	16	25.0	Swain	2	*
Cherokee	3	*	Lenoir	14	25.6	Transylvania	8	24.1
Chowan	1	*	Lincoln	17	18.9	Tyrrell	3	*
Clay	2	*	McDowell	12	26.9	Union	32	13.1
Cleveland	28	27.9	Macon	19	50.7	Vance	13	30.9
Columbus	17	34.0	Madison	4	*	Wake	149	12.9
Craven	27	26.9	Martin	4	*	Warren	2	*
Cumberland	117	34.7	Mecklenburg	246	21.9	Washington	8	73.3
Currituck	7	23.6	Mitchell	3	*	Watauga	12	21.8
Dare	9	23.8	Montgomery	8	30.9	Wayne	29	24.8
Davidson	45	26.3	Moore	25	24.3	Wilkes	13	19.8
Davie	6	13.8	Nash	23	24.2	Wilson	30	38.3
Duplin	15	30.9	New Hanover	49	21.3	Yadkin	15	40.3
Durham	87	26.4	Northampton	11	64.4	Yancey	8	42.6
Edgecombe	26	53.8	Onslow	50	24.4			
Forsyth	110	28.5	Orange	27	18.2			

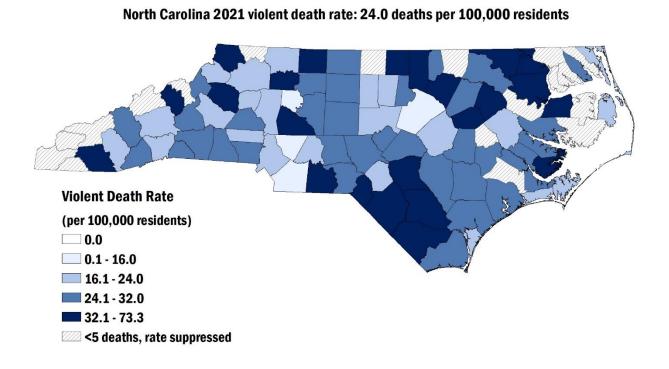
Table 5: Overall violent deaths by county of residence in North Carolina, 2021

Crude rate per 100,000 population in NC county

* The number of deaths was too small to support a rate calculation.

Top 20 counties with the highest crude overall violent death rates are shown in bold.

Figure 5: Map of overall violent death rates in North Carolina by county of residence, 2021



Race/Ethnicity and Sex of Violent Death Victims

Table 6 and Figure 6 summarize the characteristics of violent death victims in North Carolina in 2021stratified by race/ethnicity and sex.

Key Findings:

- NH Whites (58.1%) and males (79.4%) represented the majority of violent death victims, as shown in Table 1.
- NH Whites accounted for 55.9% of male violent death victims and 66.7% of female victims, while NH Blacks comprised 33.8% of male victims and 23.6% of female victims.
- Among males, NH American Indian males had the highest violent death rate per 100,000 (67.4) followed by NH Black males (64.5), NH White males (35.0), Hispanic males (26.4), and NH Asian males (11.9).
- Among females, NH American Indian females had the highest violent death rate per 100,000 (19.4) followed by NH White females (10.5), NH Black females (10.4), Hispanic females (6.0), and NH Asian females (4.4).
- The violent death rate was higher for males than for females of the same race/ethnicity by 6.2 for NH Blacks, 4.4 times for Hispanics, 3.5 times for NH American Indians, 3.3 times for NH Whites, and 2.7 times for NH Asians.

Age and Sex of Violent Death Victims

Table 7 stratifies the North Carolina violent death victims in 2021 by age group and sex.**Figure 7**illustrates the 2021 rate of violent deaths per 100,000 in North Carolina by age group and sex.

Key Findings:

- Most male violent death victims were ages 25 to 34 (22.8%) and 35 to 44 (14.0%) years old followed by males ages 45 to 54 (13.2%), 20 to 24 (12.6%), 55 to 64 (11.0%), and 15 to 19 (9.4%).
- Among females, most violent death victims were ages 45 to 54 (18.4%) years old followed by females ages 25 to 34 (16.3), 35 to 44 (16.1%), 55 to 64 (13.8%), 65 to 74 (10.3%), and 20 to 24 (8.0%).
- Among males, the violent death rate per 100,000 by age group was highest for ages 85 and older (71.9) followed by ages 20 to 24 (66.9) and 25 to 34 (64.8).
- For females, the violent death rate trend by age reached a peak of 14.1 per 100,000 for ages 45 to 54 followed by ages 35 to 44 (12.5) and 25 to 34 (12.0).
- Males were more likely to experience violent death than females by 5.9 times for ages 15 to 19, 5.7 times for ages 20 to 24, 5.4 times for ages 25 to 34, 4.7 times for ages 75 to 84, and 3.5 times for ages 65 to 74.

		Male			Female	
	Number	%	Rate	Number	%	Rate
Race/Ethnicity						
White*	1,127	55.9	35.0	348	66.7	10.5
Black*	682	33.8	64.5	123	23.6	10.4
Asian*	21	1.0	11.9	8	1.5	4.4
American Indian*	36	1.8	67.4	11	2.1	19.4
Hispanic	142	7.0	26.4	30	5.7	6.0
Other/Unknown	7	0.3	-	2	0.4	-
Total Deaths	2,015	100	39.9	522	100	9.9

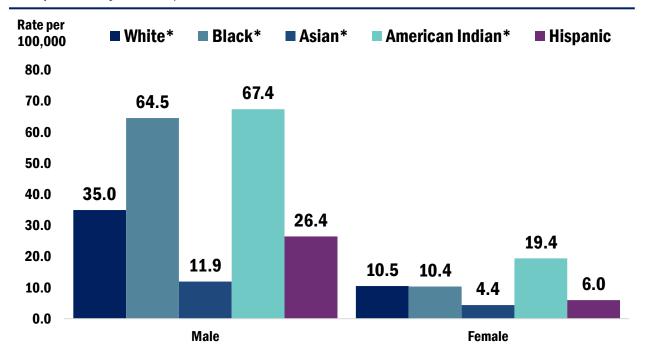
Table 6: Race/ethnicity of violent death victims in North Carolina by sex, 2021

Sex and race/ethnicity-specific crude rate per 100,000 NC population

* Non-Hispanic

Note: The number of violent deaths for sex and race/ethnicity was high enough to support a rate calculation.

Figure 6: Crude overall violent death rates in North Carolina, stratified by race/ethnicity and sex, 2021



* Non-Hispanic (NH)

Note: The number of violent deaths for sex and race/ethnicity was high enough to support a rate calculation.

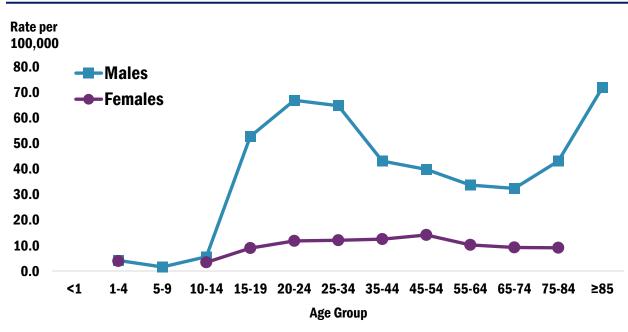
		Male			Female	
	Number	%	Rate	Number	%	Rate
Age Group (years)						
<1	3	0.1	*	3	0.6	*
1-4	10	0.5	4.2	9	1.7	3.9
5-9	5	0.2	1.6	4	0.8	*
10-14	19	0.9	5.6	11	2.1	3.4
15-19	189	9.4	52.7	31	5.9	9.0
20-24	254	12.6	66.9	42	8.0	11.8
25-34	459	22.8	64.8	85	16.3	12.0
35-44	283	14.0	43.1	84	16.1	12.5
45-54	265	13.2	39.8	96	18.4	14.1
55-64	222	11.0	33.7	72	13.8	10.2
65-74	163	8.1	32.4	54	10.3	9.2
75-84	98	4.9	43.1	27	5.2	9.1
≥85	45	2.2	71.9	4	0.8	*
otal Deaths	2,015	100	38.9	522	100	9.7

Table 7: Age group of violent death victims in North Carolina by sex, 2021

Sex and age-specific crude rate per 100,000 NC population

Note: The number of violent deaths was too small to support a rate calculation for male infants younger than one, and for female infants younger than one, ages 5-9 and 85 and older.

Figure 7: Age-specific crude overall violent death rates in North Carolina, stratified by age group and sex, 2021



Note: The number of violent deaths was too small to support a rate calculation for male infants younger than one, and for female infants younger than one, ages 5-9 and 85 and older.

Section II: Suicide

Basic Characteristics of Suicides

Table 8 describes suicides in 2021 for North Carolinians ages 10 or older by demographic characteristics of sex, race/ethnicity, and age. The rate of suicide in North Carolina per 100,000 population in 2021 is illustrated by race/ethnicity and sex in **Figure 8** and by age group in **Figure 9**.

Key Findings:

- In 2021, a total of 1,412 North Carolinians (15.1 per 100,000) died from suicide.
- Males were 4.4 times as likely to die from suicide as females (25.0 vs. 5.7 per 100,000).
- NH Whites had the highest suicide rate (18.7 per 100,000) followed NH American Indian (15.4 per 100,000), Hispanic (10.7 per 100,000), NH Black (8.6 per 100,000), NH Asian (7.7 per 100,000) victims.
- Adults ages 85 and older had the highest rate of suicide (24.8 per 100,00) followed by those ages 75 to 84 (20.3 per 100,000), 20 to 24 (18.8 per 100,000), and 25 to 34 (17.0 per 100,000).

Table 9 and Figure 10 summarize the method of death for suicide victims in North Carolina in 2021.Table 10 shows the type of firearm used for suicide firearm deaths and Table 11 lists the categories of substances that caused suicide poisoning deaths.

Key Findings:

- The leading methods of suicide were firearm (63.8%), hanging, strangulation or suffocation (22.2%), and poisoning (8.4%).
- Men more often died from suicide by a firearm (68.1%) or hanging, strangulation or suffocation (22.5%) and less frequently died from suicide by poisoning (4.3%).
- Women more commonly died from suicide by firearm (45.8%) or poisoning (25.8%), compared to hanging, strangulation or suffocation (21.0%).
- Considering only suicide firearm deaths, a handgun was the most common firearm used in 80.2% of all deaths; handguns accounted for 78.5% of male deaths and 91.1% of female deaths.
- Most suicide poisoning deaths (32.8%) involved opiates (either illicit or prescription). The second most common substance was antidepressants (27.7%), followed by anticonvulsants (21.9%), and benzodiazepines (17.7%).

Table 12 characterizes the 1,412 adult suicide victims (age 18 or older) in North Carolina in 2021 by education level, marital status, and veteran status.

Key Findings:

- The majority (86.7%) of adult suicide victims at least graduated high school or received their GED.
- Suicide victims were most often never married (35.3%) and less frequently married, in a civil union or domestic partnership (32.6%), divorced (20.4%), or widowed (6.3%).
- Military veterans accounted for 19.3% of adult suicide victims.

Table 13 and **Figure 11** show the suicide rates in 2021 by North Carolina county of residence. County rates should be interpreted with caution because the numbers of suicides by county are small and subject to variation. The number of suicides in 30 counties was too small to support a rate calculation. Furthermore, county suicide rates are influenced by small populations with 11 of the 20 counties with the highest suicide rates having less than 50,000 residents in 2021.

Key Findings:

• For the 68 counties where the number of suicides was sufficient to support a rate calculation, the average suicide rate by North Carolina county of residence was 19.1 deaths per 100,000 with a range from 0.0 to 53.1 deaths per 100,000.

	Number	%	Rate	95% Cl
Sex				
Female	271	19.2	5.7	5.0 - 6.3
Male	1,141	80.8	25.0	23.6 - 26.5
Race/Ethnicity				
White*	1,109	78.5	18.7	17.6 - 19.7
Black*	169	12.0	8.5	7.3 - 9.8
Asian*	24	1.7	7.7	4.6 - 10.8
American Indian*	15	1.1	15.4	7.6 - 23.2
Hispanic	89	6.3	10.7	8.5 - 12.9
Other/Unknown	6	0.4	-	-
Age Group (Years)				
10-14	18	1.27	2.7	1.4 - 3.9
15 - 19	86	6.09	12.2	9.6 - 14.8
20 - 24	138	9.77	18.8	15.6 - 21.9
25 - 34	241	17.07	17.0	14.9 - 19.2
35 - 44	188	13.31	14.1	12.1 - 16.2
45 - 54	219	15.51	16.3	14.1 - 18.4
55 - 64	194	13.74	14.2	12.2 - 16.2
65 - 74	176	12.46	16.1	13.8 - 18.5
75 - 84	106	7.51	20.3	16.4 - 24.1
≥85	46	3.26	24.8	17.7 - 32.0
Total Deaths	1,412	100	15.1	14.3 - 15.9

Table 8: Demographics of suicide victims (ages 10 or older) in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population

95% Cl = 95% confidence interval for the rate.

* Non-Hispanic

Note: The number of suicide deaths for sex, race/ethnicity, and age was high enough to support a rate calculation.

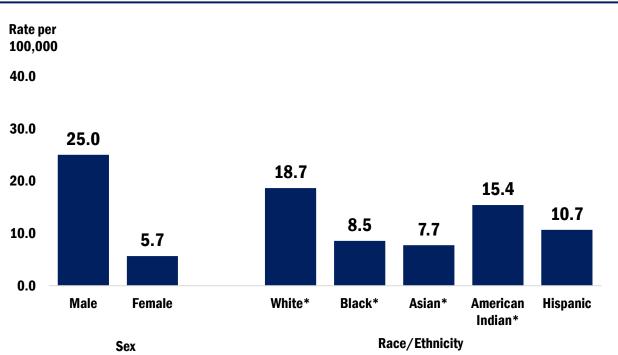
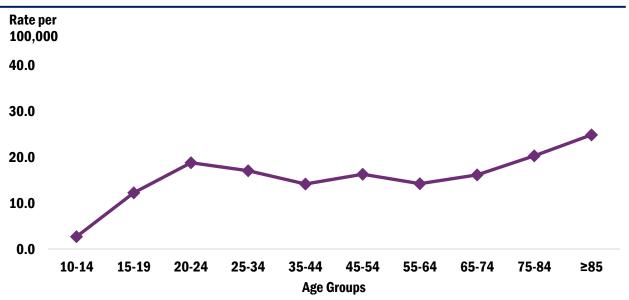


Figure 8: Crude suicide rates (ages 10 or older) in North Carolina by sex and race/ethnicity, 2021 $\,$

* Non-Hispanic

Note: The number of suicide deaths for sex and race/ethnicity was high enough to support a rate calculation.

Figure 9: Age-specific crude suicide rate (ages 10 or older) in North Carolina by age group, 2021

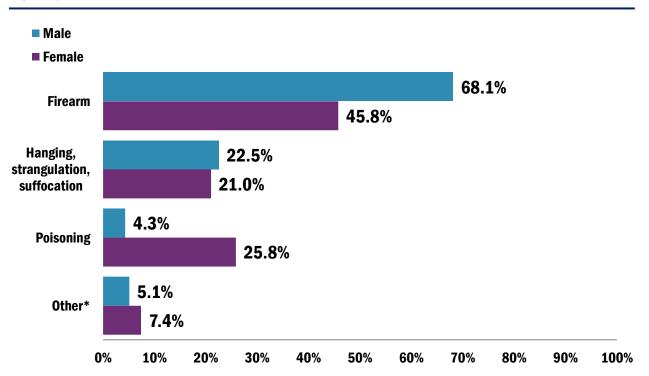


Note: The number of suicide deaths for all ages was high enough to support a rate calculation.

	Mal	е	Fema	ale	Tota	
	Number	%	Number	%	Number	%
Method of Death						
Firearm	777	68.1	124	45.8	901	63.8
Hanging, strangulation, suffocation	257	22.5	57	21.0	314	22.2
Poisoning	49	4.3	70	25.8	119	8.4
Sharp instrument	15	1.3	5	1.9	20	1.4
Fall	13	1.1	6	2.2	19	1.3
Drowning	7	0.6	6	2.2	13	0.9
Motor vehicle including buses, motorcycles	9	0.8	2	0.7	11	0.8
Fire or burns	8	0.7	1	0.4	9	0.6
Other	6	0.5	0	0.0	6	0.4
Total Deaths	1,141	100	271	100	1,412	100

Table 9: Method of death for suicide victims (ages 10 or older) in North Carolina by sex, 2021

Figure 10: Method of death for suicide victims (ages 10 or older) in North Carolina by sex, 2021



* Other includes drowning, fall, sharp instrument, motor vehicle, other transport vehicle, fire or burns, non-powder gun, other, and unknown.

	Male		Female		Total	
	Number	%	Number	%	Number	%
Firearm Type*						
Handgun	610	78.5	113	91.1	723	80.2
Shotgun	87	11.2	3	2.4	90	10.0
Rifle	72	9.3	7	5.6	79	8.8
Other/Unknown	8	1.0	1	0.8	9	1.0
Total Firearms Involved in Suicides	777	100.0	124	100.0	901	100.0

Table 10: Type of firearm involved in suicide firearm deaths (ages 10 or older) in North Carolina by sex, 2021

* Multiple firearm types were reported in zero firearm suicide deaths; therefore, the total number of firearms does not exceed the number of suicide firearm deaths (n=901).

Table 11: Fatal substances in suicide poisoning deaths (ages 10 or older) inNorth Carolina by sex, 2021

	Male		Female		Total	
	Number	%	Number	%	Number	%
Category of Fatal Substance*						
Opiate**	10	20.4	29	41.4	39	32.8
Antidepressant	10	20.4	23	32.9	33	27.7
Benzodiazepines	5	10.2	16	22.9	21	17.7
Anticonvulsants	7	14.29	19	27.14	26	21.85
Alcohol	6	12.2	5	7.1	11	9.2
Carbon Monoxide	13	26.5	4	5.7	17	14.3
Antipsychotics	4	8.16	6	8.57	10	8.4
Muscle Relaxant	1	2.04	5	7.14	6	5.04
Barbiturates	0	0.0	0	0.0	0	0.0
Amphetamine	1	2.0	1	1.4	2	1.7
Cocaine	0	0.0	1	1.4	1	0.8
Other Poison***	16	32.7	25	35.7	41	34.5

* Category of substance that directly caused or was suspected to cause suicide poisoning. There were 53 suicide poisonings (44.5%) where more than one substance caused the death in 2021, with as many as five fatal substances present in a given case (2.5%).

** Opiate includes both prescription opioids and illicit substances such as heroin

*** Other poison includes substances that did not fall into any of the summary categories

	Number	%
Education Level		
8th grade or less	35	2.6
9th – 12th grade	145	10.7
High school or GED graduate	525	38.9
Some college credit	235	17.4
Associate degree	137	10.1
Bachelor's degree	192	14.2
Master's degree	61	4.5
Doctorate degree	16	1.2
Unknown	5	0.4
Marital Status		
Never married	477	35.3
Married*	440	32.6
Divorced	275	20.4
Married, but separated	66	4.9
Widowed	85	6.3
Unknown	8	0.6
Veteran Status		
Non-Veteran	1,079	79.9
Veteran	261	19.3
Unknown	11	0.8
Total Adult Deaths (ages 18 or older)	1,351	100

Table 12: Completed education, marital status, and veteran status of adult suicide victims (ages 18 or older) in North Carolina, 2021

* Married includes married, civil union, or domestic partnership.

County	Number	Rate	County	Number	Rate	County	Number	Rate
Alamance	20	13.0	Franklin	18	28.2	Pamlico	5	43.6
Alexander	5	15.2	Gaston	33	16.2	Pasquotank	2	*
Alleghany	4	*	Gates	1	*	Pender	11	19.7
Anson	4	*	Graham	1	*	Perquimans	1	*
Ashe	11	44.8	Granville	14	25.4	Person	5	14.3
Avery	1	*	Greene	0	0.0	Pitt	16	10.5
Beaufort	7	17.5	Guilford	52	10.8	Polk	4	*
Bertie	2	*	Halifax	5	11.6	Randolph	28	21.8
Bladen	2	*	Harnett	22	18.9	Richmond	1	*
Brunswick	27	20.1	Haywood	14	24.7	Robeson	11	10.9
Buncombe	37	15.0	Henderson	19	17.9	Rockingham	19	23.2
Burke	13	16.4	Hertford	1	*	Rowan	27	20.6
Cabarrus	21	10.4	Hoke	1	*	Rutherford	9	15.5
Caldwell	21	29.1	Hyde	0	0.0	Sampson	6	11.7
Camden	2	*	Iredell	27	15.8	Scotland	4	*
Carteret	9	14.3	Jackson	8	20.6	Stanly	8	14.3
Caswell	1	*	Johnston	35	17.6	Stokes	10	24.7
Catawba	29	20.2	Jones	1	*	Surry	11	17.3
Chatham	12	17.0	Lee	8	14.2	Swain	2	*
Cherokee	3	*	Lenoir	3	*	Transylvania	7	22.9
Chowan	1	*	Lincoln	13	16.2	Tyrrell	2	*
Clay	2	*	McDowell	8	19.9	Union	18	8.4
Cleveland	18	20.3	Macon	18	53.1	Vance	3	*
Columbus	8	17.9	Madison	3	*	Wake	96	9.5
Craven	19	21.5	Martin	2	*	Warren	1	*
Cumberland	58	20.1	Mecklenburg	126	12.8	Washington	5	51.2
Currituck	7	26.7	Mitchell	3	*	Watauga	8	15.5
Dare	5	14.5	Montgomery	4	*	Wayne	11	10.8
Davidson	29	19.1	Moore	17	18.7	Wilkes	8	13.5
Davie	3	*	Nash	11	13.0	Wilson	14	20.3
Duplin	6	14.1	New Hanover	29	13.9	Yadkin	9	27.2
Durham	39	13.3	Northampton	6	38.6	Yancey	6	35.4
Edgecombe	6	14.0	Onslow	35	20.1			
Forsyth	53	15.5	Orange	20	14.8			

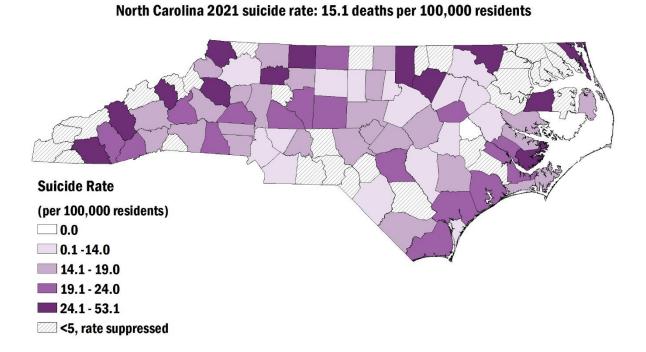
Table 13: Suicides (ages 10 or older) in North Carolina by county of residence, 2021

Crude rate per 100,000 population in NC county

* The number of deaths was too small to support a rate calculation.

Top 20 counties with the highest crude overall violent death rates are shown in bold.

Figure 11: Map of suicide rates (ages 10 or older) in North Carolina by county of residence, 2021



Race/Ethnicity and Sex of Suicide Victims

 Table 14 and Figure 12 describe suicide victims in North Carolina in 2021 by race and sex.

Key Findings:

- Of all suicide victims, 78.5% were NH White and 80.8% were male, as shown in **Table 8**.
- Most male suicide victims were NH White (78.6%) as compared to NH Black (12.2%). Similarly, most female suicide victims were NH White (78.2%) as compared to NH Black (11.1%).
- For males, the suicide rate per 100,000 from highest to lowest by race/ethnicity was NH White males (30.8), NH American Indian males (23.4), Hispanic males (16.6), NH Black males (15.1), and NH Asian males (11.9).
- For females, the suicide rate per 100,000 from highest to lowest by race/ethnicity was NH White females (7.0), Hispanic females (4.2), NH Asian females (3.8), and NH Black females (2.8). There were four suicides among NH American Indian females in 2021, which was too small to compute a rate.
- The suicide rate was higher for males than for females of the same race by 5.3 times for NH Blacks, 4.4 times for NH Whites, 3.9 times for Hispanics, and 3.2 times for NH Asians. The rate ratio could not be calculated for NH American Indians due to NH American Indian females having an unstable rate.

Age and Sex of Suicide Victims

Table 15 portrays the suicide victims in North Carolina in 2021 by age group and sex.**Figure 13** plotsthe 2021 suicide rates per 100,000 in North Carolina by age group and sex.

Key Findings:

- Among males, most suicide victims were ages 25 to 64 with a rank order by age group of: 25 to 34 (17.8%), 45 to 54 (14.1%), 55 to 64 (13.6%), and 35 to 44 (13.3%).
- Similarly, among females most suicide victims were ages 25 to 74 with a rank order by age group of: 45 to 54 (21.4%), 55 to 64 (14.4%), 25 to 34 (14.0%), 65 to 74 (14.0%), and 35 to 44 (13.3%).
- For males, the suicide rate peaked among those ages 85 and older (70.3 per 100,000).
- The suicide rate by age group for females peaked at 45 to 54 (8.5 per 100,000).
- Males had higher suicide rates than females across all age groups with the largest sex disparity occurring among those ages 20 to 24 with the rate being 6.7 times higher among males than females (31.9 versus 4.8 per 100,000, respectively).

	Male				Female	
	Number	%	Rate	Number	%	Rate
Race/Ethnicity						
White**	897	78.6	30.8	212	78.2	7.0
Black**	139	12.2	15.1	30	11.1	2.8
Asian**	18	1.6	11.9	6	2.2	3.8
American Indian**	11	1.0	23.4	4	1.5	*
Hispanic	72	6.3	16.6	17	6.3	4.2
Other/Unknown	4	0.4	-	2	0.7	-
Total Deaths	1,141	100	25.0	271	100	6.3

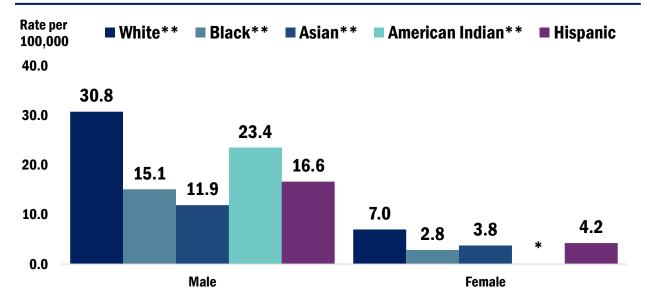
Table 14: Race of suicide victims (ages 10 or older) in North Carolina by sex, 2021

Sex and race-specific crude rate per 100,000 NC population

* The number of deaths was too small to support a rate calculation for NH American Indian females.

** Non-Hispanic

Figure 12: Crude suicide rates (ages 10 or older) in North Carolina stratified by race/ethnicity and sex, 2021



* The number of deaths was too small to support a rate calculation for NH American Indian females. ** Non-Hispanic

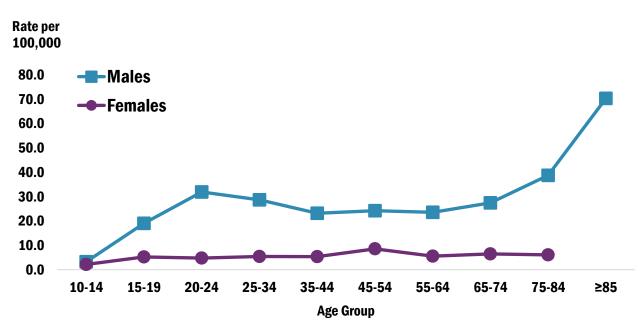
		Male			Female	
	Number	%	Rate	Number	%	Rate
Age Group (Years)						
10-14	11	1.0	3.2	7	2.6	2.1
15-19	68	6.0	19.0	18	6.6	5.2
20-24	121	10.6	31.9	17	6.3	4.8
25-34	203	17.8	28.7	38	14.0	5.4
35-44	152	13.3	23.2	36	13.3	5.3
45-54	161	14.1	24.2	58	21.4	8.5
55-64	155	13.6	23.5	39	14.4	5.5
65-74	138	12.1	27.4	38	14.0	6.5
75-84	88	7.7	38.7	18	6.6	6.1
≥85	44	3.9	70.3	2	0.7	*
Total Deaths	1,141	100	25.0	271	100	5.7

Table 15: Age group of suicide victims (ages 10 or older) in North Carolina by sex, 2021

Sex and age-specific crude rates per 100,000 NC population

Note: The number of suicide deaths was too small to support a rate calculation for female ages 85 and older.

Figure 13: Age-specific suicide rates (ages 10 or older) in North Carolina stratified by age group and sex, 2021



Note: The number of suicide deaths was too small to support a rate calculation for female ages 85 and older.

Circumstances, Toxicology Testing, and Injury Location for Suicide Victims

NC-VDRS collects data on the circumstances surrounding suicides. In 2021, 96.0% of suicide victims had available data. A wide range of circumstances lead to suicide, and each victim may have more than one circumstance. Accordingly, the total number of circumstances may exceed the total number of suicides. **Table 16** and **Figure 14** describe the circumstances for suicide victims ages 10 or older stratified by sex and based on the number of cases reporting circumstances in North Carolina in 2021. **Table 17** lists the mental health problem at the time of the suicide for both males and females in 2021.

Key Findings:

- The most common circumstances of suicide for male victims were ever being treated for mental illness (57.4%), current mental health problem (56.7%), experienced a recent crisis (44.6%), history of suicidal thoughts (30.6%), and intimate partner problem (28.4%).
- The most common circumstances of suicide for female victims were ever being treated for mental illness (78.7%), current mental health problem (77.5%), current treatment for mental illness (48.8%), experienced a recent crisis (45.0%), and history of suicidal thoughts (38.4%).
- A suicide note was left by 26.5% of male victims and 46.1% of female victims. Intent to commit suicide was disclosed by 22.5% of male victims and 31.0% of female victims. A total of 13.8% of male victims and 27.5% of female victims reported a history of suicide attempts, while 30.6% of male victims and 38.4% of female victims had a history of suicidal thoughts.

An intimate partner problem was a circumstance of suicide for 28.4% of males and 22.5% of females. A substance problem other than alcohol was a circumstance of suicide for 18.2% of males and 19.8% of females. Other common circumstances of suicide for males and females, respectively, were alcohol problem (17.1% and 12.4%), physical health problem (22.7% and 24.4%), recent criminal-related legal problem (8.4% and 1.9%), job problem (7.6% and 5.4%) and financial problem (4.3% and 5.0%).

At the time of suicide, the most common mental health problems were depression or dysthymia (78.6%), anxiety disorder (14.8%), bipolar disorder (10.3%), post-traumatic stress disorder (3.3%), and schizophrenia (3.2%).

Toxicology testing was performed on suicide victims at the medical examiner's direction to identify substances believed to have contributed to the death or circumstances surrounding the death. A positive test for a substance does not necessarily indicate that the substance was present at a lethal level. Testing of North Carolina suicide victims in 2021 is shown by sex in **Table 18** and by age and race/ethnicity in **Table 19**.

Key Findings:

- Alcohol was tested in 91.4% of all suicides. Testing was relatively infrequent for other substances. Of those victims tested, alcohol was present in 25.8% of all suicide victims, 27.1% of male victims and 20.3% of female victims.
- Ages 20 to 54 had the highest percentage of suicide victims with alcohol present, with a range from 35.5% to 38.8% of those age groups testing positive for alcohol. Alcohol was present in those victims tested by race as follows: NH Whites (28.3%), NH Blacks (24.8%), NH Asians (22.7%), NH American Indians (20.0%), and Hispanics (36.1%).

Table 20 lists the location of the injury resulting in death for suicide victims in North Carolina in 2021.

Key Findings:

• The majority (76.7%) of injuries resulting in death occurred in a house or an apartment.

	Mal	е	Fema	ale	Tot	al
Circumstance*	Number	%	Number	%	Number	%
Mental Health						
Ever treated - mental health	630	57.4	203	78.7	833	61.4
Current mental health problem	622	56.7	200	77.5	822	60.6
Current depressed mood	304	27.7	78	30.2	382	28.2
Current treatment MH	265	24.1	126	48.8	391	28.8
Substance Abuse/Addiction						
Alcohol problem	188	17.1	32	12.4	220	16.2
Other substance problem	200	18.2	51	19.8	251	18.5
Other addiction problem	1	0.1	1	0.4	2	0.2
Interpersonal						
Intimate partner problem	312	28.4	58	22.5	370	27.3
Other relationship problem	22	2.0	7	2.7	29	2.1
Perpetrator of intimate partner violence	55	5.0	3	1.2	58	4.3
Death of family/friend	67	6.1	16	6.2	83	6.1
Suicide death of family/friend in past 5 years	15	1.4	1	0.4	16	1.2
Life Stressor						
Physical health problem	249	22.7	63	24.4	312	23.0
Job problem	83	7.6	14	5.4	97	7.2
Criminal/legal problem	92	8.4	5	1.9	97	7.2
Financial problem	47	4.3	13	5.0	60	4.4
Legal problem, other	34	3.1	12	4.7	46	3.4
School problem	20	1.8	2	0.8	22	1.6
Recent crisis	490	44.6	116	45.0	606	44.69
Suicide Event						
Left a suicide note	291	26.5	119	46.1	410	30.2
Suicide disclosed	247	22.5	80	31.0	327	24.1
History of suicide attempt	152	13.8	71	27.5	223	16.5
History of suicidal thoughts	336	30.6	99	38.4	435	32.1

Table 16: Circumstances of suicide victims (ages 10 or older) inNorth Carolina by Sex, 2021

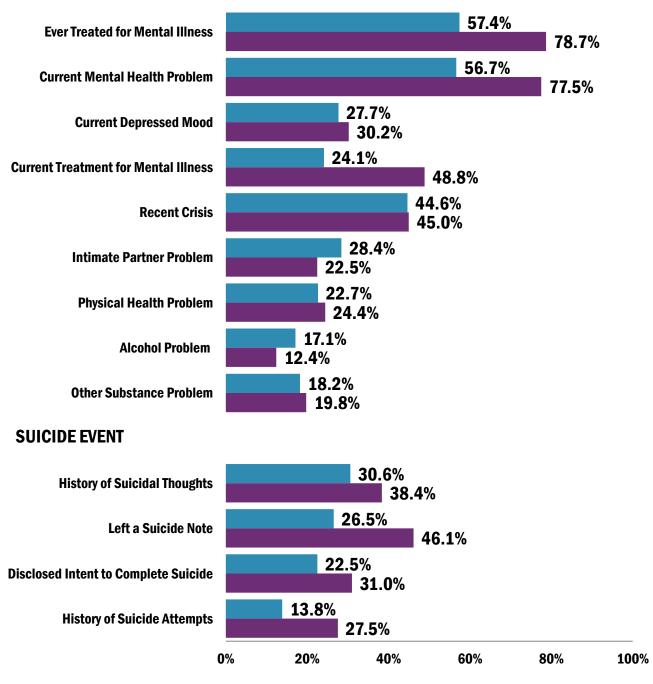
* Circumstances were available for 96.2% (1,098/1,141) of male victims, 95.2% (258/271) of female victims, and 96.0% (1,356/1,412) of all suicide victims. The percentage of circumstances for suicide victims is based on the number of cases reporting circumstances in North Carolina in 2021.

Figure 14: Circumstances of suicide victims (ages 10 or older) in North Carolina by Sex, 2021

Male

Female

SUICIDE CIRCUMSTANCE



Note: For Table 16 and Figure 14, suicide victims may have more than one circumstance; Therefore, the responses add up to more than 100%. This figure does not include all circumstances.

	Male		Fema	ale	Tota	al
	Number	%	Number	%	Number	%
Current Mental Health Problem *						
Depression/Dysthymia	479	77.0	167	83.5	646	78.6
Bipolar Disorder	61	9.8	24	12.0	85	10.3
Schizophrenia	25	4.0	1	0.5	26	3.2
Anxiety Disorder	81	13.0	41	20.5	122	14.8
Post-Traumatic Stress Disorder	25	4.0	2	1.0	27	3.3
Attention Deficit Disorder (ADD) or Hyper-Reactivity Disorder	21	3.4	0	0.0	21	2.6
Eating Disorder	1	0.2	2	1.0	3	0.4
Other/Unknown	78	12.5	35	17.5	113	13.7

Table 17: Current mental health problems at the time of suicide (ages 10 or older)in North Carolina by sex, 2021

* For 771 males, 272 females, and 1,043 total suicide victims with a current mental health problem **Note:** Victims may have more than one current problem; thus, responses add up to more than 100%.

	Mal	е	Fema	ale	Tota	al
	Number	%	Number	%	Number	%
Alcohol						
Tested with results	1,042	91.3	248	91.5	1,290	91.4
Alcohol present in those tested	309	27.1	55	20.3	364	25.8
Amphetamines						
Tested with results	20	1.8	8	3.0	28	2.0
Amphetamines present in those tested	12	1.1	6	2.2	18	1.3
Antidepressant						
Tested with results	26	2.3	43	15.9	69	4.9
Antidepressant present in those tested	25	2.2	43	15.9	68	4.8
Cocaine						
Tested with results	84	7.4	79	29.2	163	11.5
Cocaine present in those tested	5	0.4	2	0.7	7	0.5
Opiates						
Tested with results	83	7.3	72	26.6	155	11.0
Opiates present in those tested	21	1.8	31	11.4	52	3.7
Other substances*						
Tested with results	107	3.1	84	15.5	191	4.8
Other drugs present in those tested	34	1.0	35	6.5	69	1.7

Table 18: Toxicology testing and results for suicide victims (ages 10 or older) in North Carolina by sex, 2021

* Other substances include carbon monoxide, barbiturates, benzodiazepines, and marijuana.

Note: Testing refers to conducted toxicology tests of suicide victims.

	Alcohol tested	d with results	Alcohol present	in those tested
	Number	%	Number	%
Age Group (Years)				
10-14	14	77.8	0	0.0
15 - 19	79	91.9	9	11.4
20 - 24	129	93.5	50	38.8
25 - 34	220	91.3	79	35.9
35 - 44	172	91.5	61	35.5
45 - 54	197	90.0	73	37.1
55 - 64	184	94.8	52	28.3
65 - 74	163	92.6	30	18.4
75 - 84	94	88.7	9	9.6
≥85	38	82.6	1	2.6
Race/Ethnicity				
White*	1,012	91.3	286	28.3
Black*	157	92.9	39	24.8
Asian*	22	91.7	5	22.7
American Indian*	10	66.7	2	20.0
Hispanic	83	93.3	30	36.1
Other/Unknown	6	100.0	2	33.3

Table 19: Alcohol toxicology testing and results for suicide victims (ages 10 or older) inNorth Carolina by age group and race, 2021

*Non-Hispanic

	Number	%
Injury Location		
House, apartment	1,083	76.7
Motor vehicle (excluding school bus and public transportation)	100	7.1
Natural Area (e.g., field, river, beach, woods)	75	5.3
Hotel/motel	17	1.2
Jail, prison, detention facility	24	1.7
Park, playground, public use area	5	0.4
Other commercial establishment (e.g., grocery store, retail outlet, laundromat)	13	0.9
Street/road, sidewalk, alley	18	1.3
Parking lot/public parking garage	15	1.1
Highway/freeway	11	0.8
Hospital or medical facility	4	0.3
Synagogue, church, temple	1	0.1
Other specified*	40	2.8
Other/unknown	6	0.4
Total Deaths	1,412	100

Table 20: Injury location for suicide victims (ages 10 or older) in North Carolina, 2021

*Other Specified includes office building, industrial/construction area, abandoned house or building, college/university, farm, supervised residential facility, and railroad tracks.

Section III: Homicide

Basic Characteristics of Homicides

Table 21 characterizes the homicides in 2021 for North Carolina residents by demographics of sex,race/ethnicity, and age. The homicide rate in 2021 in North Carolina per 100,000 people isdisplayed by race/ethnicity and sex in Figure 15 and by age group in Figure 16.

Key Findings:

- In 2021, 950 North Carolinians (9.0 per 100,000) were victims of homicide.
- Males were 4.2 times as likely to be victims of a homicide as females (14.7 versus 3.5 per 100,000, respectively).
- NH Blacks (26.6 per 100,000) had higher homicide rates than NH American Indians (24.5 per 100,000), Hispanics (7.4 per 100,000), and NH Whites (3.7 per 100,000). There were two homicides among NH Asians in 2021, which was too small to compute a rate.
- Homicide rates per 100,000 were highest for adults ages 20 to 24 years (19.9 per 100,000) and 25 to 34 years (18.7 per 100,000). Among children younger than 14 (for age groups where rates could be calculated), the rate was highest in children ages 1 to 4 years (2.8 per 100,000).

The method of death for homicide victims in North Carolina in 2021 is shown in **Table 22** and **Figure 17**. The type of firearm involved in homicide firearm deaths in North Carolina in 2021 is listed in **Table 23**.

Key Findings:

- The leading methods of homicide were firearm (85.5%), sharp instrument (6.4%), personal weapons (2.6%), blunt instrument (2.6%), and hanging, strangulation, and suffocation (1.6%).
- Most male and female homicide victims died by firearm (88.2% and 74.3% respectively), or sharp instrument (5.5% and 10.2% respectively).
- Considering only homicide firearm deaths, a handgun was the most common firearm used (71.6%).

Table 24 describes adult homicide victims (18 years or older) in North Carolina in 2021 by educationlevel, marital status, and veteran status.

Key Findings:

- Among adult homicide victims, 47.6% graduated high school or received their GED, 20.0% completed at least some college credit, and 31.5% completed up to 12th grade but did not graduate.
- About two thirds of homicide victims were never married (65.4%) as compared to married, civil union, or domestic partnership (16.8%), divorced (12.2%), married but separated (2.6%), or widowed (1.9%).
- Military veterans accounted for 4.9% of adult homicide victims.

Table 25 and **Figure 18** display the homicide rates in 2021 by North Carolina County of residence. County rates should be interpreted with caution because the numbers of homicides by county are small and subject to variation. The number of homicides in 26 counties was too small to support a rate calculation. Thirteen of the 20 counties with the highest rates had less than 50,000 residents in 2021.

Key Findings:

• For the 57 counties where the number of homicides was sufficient to support a rate calculation, the average homicide rate by North Carolina County of residence was 10.0 deaths per 100,000 with a range from 0.0 to 35.1 deaths per 100,000.

	Number	%	Rate	95% Cl
Sex				
Female	187	19.7	3.5	3.0 - 4.0
Male	763	80.3	14.7	13.7 - 15.8
Race/Ethnicity				
White*	245	25.8	3.7	3.3 - 4.2
Black*	597	62.8	26.6	24.5 - 28.7
Asian*	2	0.2	*	*
American Indian*	27	2.8	24.5	15.3 - 33.8
Hispanic	77	8.1	7.4	5.8 - 9.1
Other/Unknown	2	0.2	-	-
Age Group (Years)				
< 1	4	0.4	*	*
1-4	13	1.4	2.8	1.3 - 4.3
5-9	6	0.6	1.0	0.2 - 1.7
10-14	9	0.9	1.3	0.5 - 2.2
15-19	124	13.1	17.6	14.5 - 20.7
20-24	146	15.4	19.9	16.6 - 23.1
25-34	265	27.9	18.7	16.5 - 21.0
35-44	143	15.1	10.8	9.0 - 12.5
45-54	114	12.0	8.5	6.9 - 10.0
55-64	79	8.3	5.8	4.5 - 7.1
65-74	31	3.3	2.8	1.8 - 3.8
75-84	13	1.4	2.5	1.1 - 3.8
≥85	3	0.3	*	*
Total Deaths	950	100.0	9.0	8.4 - 9.6

Table 21: Demographics of homicide victims in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population

95% CI = 95 % confidence interval for the rate

* Non-Hispanic

Note: The number of homicide deaths was too small to support a rate calculation for NH Asians, and for infants younger than one and ages 85 and older.

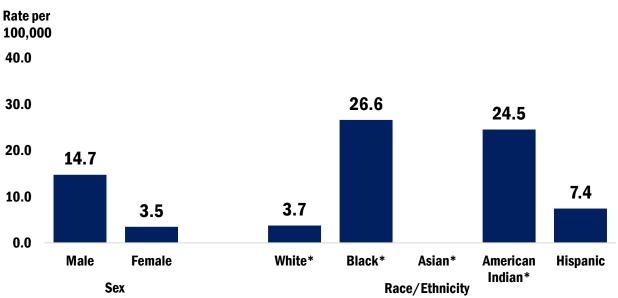


Figure 15: Crude homicide rates in North Carolina by sex and race/ethnicity, 2021

* Non-Hispanic

Note: The number of homicide deaths was too small to support a rate calculation for NH Asians.

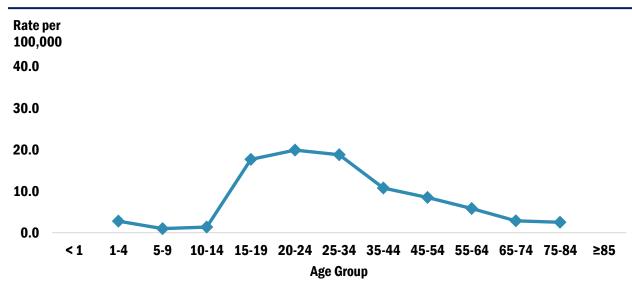


Figure 16: Age-specific crude homicide rates in North Carolina by age group, 2021

Note: The number of homicide deaths was too small to support a rate calculation for infants younger than one and ages 85 and older.

	Male		Fem	ale	Tot	al
	Number	%	Number	%	Number	%
Method of Death						
Firearm	673	88.2	139	74.3	812	85.5
Sharp instrument	42	5.5	19	10.2	61	6.4
Blunt instrument	21	2.8	4	2.1	25	2.6
Personal weapons	18	2.4	7	3.7	25	2.6
Hanging, strangulation, suffocation	4	0.5	11	5.9	15	1.6
Fire or burns	1	0.1	0	0.0	1	0.1
Intentional neglect	0	0.0	1	0.5	1	0.1
Other*/unknown	4	0.5	6	3.2	10	1.1
Total Deaths	763	100	187	100	950	100

Table 22: Method of death for homicide victims in North Carolina by sex, 2021

* Other includes intentional neglect (e.g., starvation), and violent shaking.

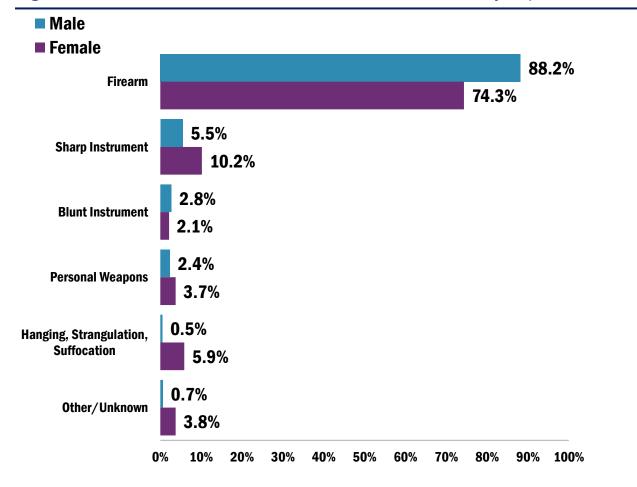


Figure 17: Method of death for homicide victims in North Carolina by sex, 2021

	Male		Fema	ale	Total	
	Number	%	Number	%	Number	%
Firearm Type*						
Handgun	490	72.3	95	68.3	585	71.6
Shotgun	23	3.4	9	6.5	32	3.9
Rifle	62	9.1	15	10.8	77	9.4
Other/Unknown	103	15.2	20	14.4	123	15.1
Total Firearms Involved in Homicides	678	100	139	100	817	100

Table 23: Type of firearm involved in homicide firearm deaths in North Carolinaby Sex, 2021

* Multiple firearm types were reported for five male homicide deaths and zero female homicide deaths; therefore, the total number of firearms exceeds the number of homicide firearm deaths (n=812).

Table 24: Completed education, marital status, and veteran status of adult homicide victims (age 18 or older) in North Carolina, 2021

	Number	%
Education Level		
8th grade or less	36	4.2
9th – 12th grade	236	27.3
High school or GED graduate	411	47.6
Some college credit	108	12.5
Associate degree	30	3.5
Bachelor's degree	23	2.7
Master's degree	10	1.2
Doctorate degree	2	0.2
Unknown	8	0.93
Marital Status		
Never married	565	65.4
Married*	145	16.8
Divorced	105	12.2
Married, but separated	22	2.6
Widowed	16	1.9
Unknown	11	1.3
Veteran Status		
Non-Vet	816	94.4
Vet	42	4.9
Unknown	6	0.7

* Married includes married, civil union or domestic partnership.

County	Number	Rate	County	Number	Rate	County	Number	Rate
Alamance	16	9.2	Franklin	7	9.7	Pamlico	0	0.0
Alexander	0	0.0	Gaston	24	10.4	Pasquotank	5	12.3
Alleghany	0	0.0	Gates	0	0.0	Pender	4	*
Anson	6	27.0	Graham	0	0.0	Perquimans	0	0.0
Ashe	1	*	Granville	6	9.8	Person	3	*
Avery	4	*	Greene	1	*	Pitt	8	4.6
Beaufort	5	11.3	Guilford	71	13.1	Polk	1	*
Bertie	5	28.7	Halifax	9	18.6	Randolph	9	6.2
Bladen	9	30.4	Harnett	11	8.1	Richmond	9	21.0
Brunswick	6	4.1	Haywood	3	*	Robeson	36	31.0
Buncombe	16	5.9	Henderson	5	4.3	Rockingham	5	5.5
Burke	5	5.7	Hertford	6	28.3	Rowan	17	11.5
Cabarrus	13	5.6	Hoke	9	16.9	Rutherford	7	10.8
Caldwell	9	11.2	Hyde	0	0.0	Sampson	6	10.2
Camden	0	0.0	Iredell	10	5.2	Scotland	12	35.1
Carteret	3	*	Jackson	0	0.0	Stanly	3	*
Caswell	1	*	Johnston	13	5.7	Stokes	4	*
Catawba	16	9.9	Jones	0	0.0	Surry	2	*
Chatham	2	*	Lee	8	12.5	Swain	0	0.0
Cherokee	0	0.0	Lenoir	10	18.3	Transylvania	0	0.0
Chowan	0	0.0	Lincoln	4	*	Tyrrell	1	*
Clay	0	0.0	McDowell	2	*	Union	13	5.3
Cleveland	7	7.0	Macon	1	*	Vance	10	23.8
Columbus	9	18.0	Madison	1	*	Wake	49	4.3
Craven	6	6.0	Martin	2	*	Warren	1	*
Cumberland	53	15.7	Mecklenburg	108	9.6	Washington	3	*
Currituck	0	0.0	Mitchell	0	0.0	Watauga	4	*
Dare	4	*	Montgomery	4	*	Wayne	17	14.5
Davidson	10	5.9	Moore	8	7.8	Wilkes	5	7.6
Davie	3	*	Nash	8	8.4	Wilson	13	16.6
Duplin	8	16.5	New Hanover	15	6.5	Yadkin	5	13.4
Durham	46	14.0	Northampton	5	29.3	Yancey	2	*
Edgecombe	16	33.1	Onslow	10	4.9			
Forsyth	51	13.2	Orange	5	3.4			

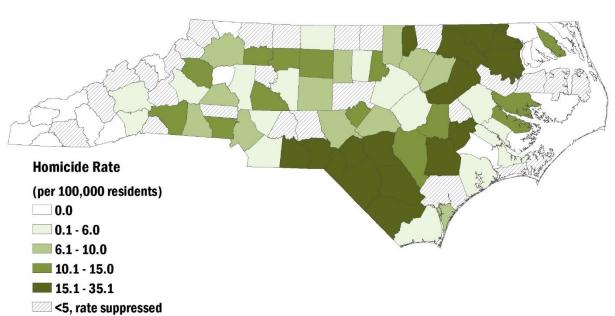
Table 25: Homicides in North Carolina by county of residence, 2021

Crude rate per 100,000 population in NC county

* Number of deaths was too small to support rate calculation.

Top 20 counties with the highest crude homicide rates are shown in bold.

Figure 18: Map of homicide rates in North Carolina by county of residence, 2021



North Carolina 2021 homicide rate: 9.0 deaths per 100,000 residents

Race/Ethnicity and Sex of Homicide Victims

 Table 26 and Figure 19 describe the 2021 North Carolina homicide victims by sex and race/ethnicity.

Key Findings:

- Of all homicide victims 80.3% were male, 62.8% were NH Black, and 25.8% were NH White as shown in **Table 19**.
- Most male homicide victims were NH Black (67.4%) as compared to NH White (21.0%), Hispanic (8.4%), and NH American Indian (2.9%). Almost half of female homicide victims were NH White (45.5%) followed by NH Black (44.4%), Hispanic (7.0%), and NH American Indian (2.7%). There were two homicides among NH Asians in 2021, which was too small to compute rates.
- The homicide rates per 100,000 were 9.8 times higher for NH Black males (48.6 per 100,000) and 8.3 times higher for NH American Indian males (41.2 per 100,000), than NH White males (5.0 per 100,000).
- NH American Indian females were 3.4 times as likely (8.8 per 100,000) and NH Black females 2.7 times as likely (7.0 per 100,000) to be homicide victims compared to NH White females (2.6 per 100,000, respectively).
- The homicide rate was 7.0 times higher for NH Black males than for NH Black females. The homicide rate was 1.9 times higher for NH White males than NH White females.

Age and Sex of Homicide Victims

The age and sex of homicide victims in North Carolina in 2021 are categorized in **Table 27**. The 2021 homicide rates per 100,000 in North Carolina are stratified by age group and sex in **Figure 20**.

Key Findings:

- Most male homicide victims were ages 15 to 54 years, with a rank order by age group of: 25 to 34 (30.0%), 20 to 24 (16.4%), 15 to 19 (14.7%), 35 to 44 (14.5%), and 45 to 54 (11.4%).
- Among females, most homicide victims were ages 20 to 64 years with a rank order by age group of: 25 to 34 (19.3%), 35 to 44 (17.1%), 45 to 54 (14.4%), 55 to 64 (12.8%), and 20 to 24 (11.2%).
- Males had higher homicide rates than females across all age groups, where the number of deaths was large enough to support rate calculation.
- The homicide rate by age for males peaked among ages 20 to 24 years (32.9 per 100,000) and then declined to 3.1 per 100,000 for ages 75 to 84.

	Male			Female			
	Number	%	Rate	Number	%	Rate	
Race/Ethnicity							
White**	160	21.0	5.0	85	45.5	2.6	
Black**	514	67.4	48.6	83	44.4	7.0	
Asian**	1	0.1	*	1	0.5	*	
American Indian**	22	2.9	41.2	5	2.7	8.8	
Hispanic	64	8.4	11.9	13	7	2.6	
Other/Unknown	2	0.3	-	0	0	-	
Total Deaths	763	100	14.7	187	100	3.6	

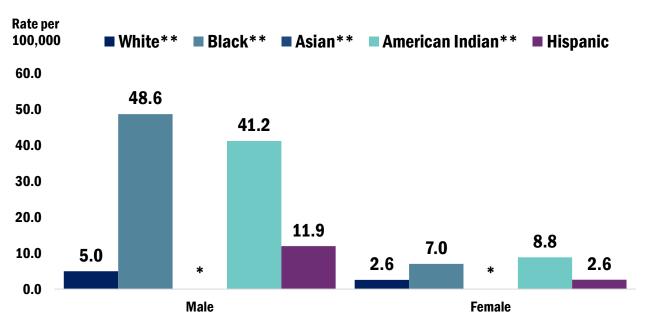
Table 26: Race/ethnicity of homicide victims in North Carolina by sex, 2021

Sex and race-specific crude rate per 100,000 NC population

* The number of deaths was too small to support a rate calculation for NH Asian males and females.

** Non-Hispanic

Figure 19: Crude homicide rates in North Carolina stratified by race/ethnicity and sex, 2021



 \ast The number of deaths was too small to support a rate calculation for NH Asian males and females. $\ast\ast$ Non-Hispanic

		Male			Female	
	Number	%	Rate	Number	%	Rate
Age Group (Years)						
<1	2	0.3	*	2	1.1	*
1-4	7	0.9	2.9	6	3.2	2.6
5-9	3	0.4	*	3	1.6	*
10-14	6	0.8	1.8	3	1.6	*
15-19	112	14.7	31.2	12	6.4	3.5
20-24	125	16.4	32.9	21	11.2	5.9
25-34	229	30	32.3	36	19.3	5.1
35-44	111	14.5	16.9	32	17.1	4.8
45-54	87	11.4	13.1	27	14.4	4.0
55-64	55	7.2	8.3	24	12.8	3.4
65-74	18	2.4	3.6	13	7	2.2
75-84	7	0.9	3.1	6	3.2	2.0
≥85	1	0.1	*	2	1.1	*
Total Deaths	763	100	14.7	187	100	3.5

Table 27: Age group of homicide victims in North Carolina by sex, 2021

Sex and age-specific crude rates per 100,000 NC population

* The number of deaths was too small to support a rate calculation for male infants younger than one, ages 5-9 and 85 and older, and for female infants younger than one and ages 5-9, 10-14, and 85 and older.

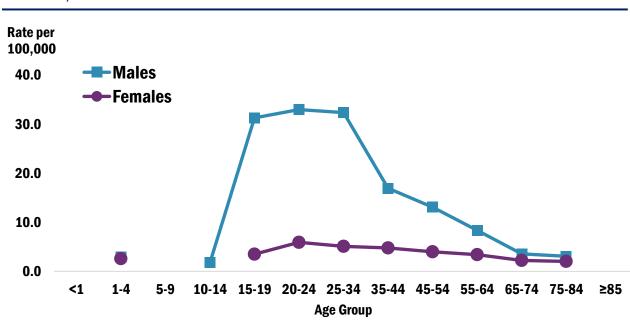


Figure 20: Age-specific crude homicide rates in North Carolina stratified by age group and sex, 2021

Note: The number of deaths was too small to support a rate calculation for male infants younger than one, ages 5-9 and 85 and older, and for female infants younger than one and ages 5-9, 10-14, and 85 and older.

Circumstances and Injury Location for Homicide Victims

NC-VDRS collects data on the event and victim circumstances involving homicides to understand the underlying causes of violent death. However, circumstance data were not available for all homicides. In 2021, 94.2% of homicide victims had data available for at least one circumstance related to the homicide. Since each victim may have had more than one circumstance, the total number of circumstances may exceed the total number of homicides.

Please note that drug-related homicides are characterized in two ways. If the drug-related crime (e.g., drug sales) was part of the homicide, then the circumstances are categorized as "precipitated by another crime" and the crime is listed as "drug trade." If drugs played a role in the homicide, then the homicide is classified as "drug involvement." In addition, gang-related crimes are likely significantly undercounted because these crimes are difficult to identify, and definitions differ across agencies.

Table 28 describes the circumstances for homicide victims stratified by sex based on the number of cases reporting circumstances in North Carolina in 2021. **Table 29** lists the crimes that precipitated the homicide for both men and women. **Figure 21** illustrates the most common homicide event circumstances and precipitating crimes for homicide victims in North Carolina in 2021.

Key Findings:

- The most common event circumstances surrounding homicides for males were an argument, abuse, or conflict (43.5%), precipitated by another serious crime (31.2%), drug involvement (18.3%), intimate partner violence-related (9.8%), and gang related (9.3%).
- For females, the most common event circumstances surrounding homicides were intimate partner violence-related (45.9%), an argument, abuse, or conflict (36.6%), precipitated by another serious crime (20.2%), drug involvement (5.5%), and gang related (4.9%).
- The most common crimes that precipitated homicide for male victims were robbery (44.6%), burglary (20.4%), assault or homicide (13.0%), and drug trade (10.8%).
- The most common crimes that precipitated homicide for female victims included burglary (31.3%), robbery (25.0%), assault or homicide (14.6%), rape or sexual assault (8.3%), and arson (8.3%).
- Common victim circumstances surrounding homicides were the victim used a weapon (15.6%), justifiable self-defense (4.6%), and the victim was a bystander (2.5%).

Table 30 summarizes the location of the injury resulting in death for homicide victims in North Carolina in 2021.

Key Findings:

- Most injuries resulting in death occurred in a house or apartment (54.0%).
- Other common locations where injuries resulting in death occurred were a motor vehicle (16.6%), a street, road, sidewalk, or alley (9.1%), other commercial establishments such as a grocery store or laundromat (4.5%), a parking lots or public parking garage (4.1%), a hotel/motel (2.2%), natural areas such as a field or woods (2.2%), and bars/nightclubs (1.7%).

	Mal	е	Fema	ale	Tota	al
Circumstance*	Number	%	Number	%	Number	%
Event						
Other argument, abuse, conflict	310	43.5	67	36.6	377	42.1
Precipitated by another serious crime	222	31.2	37	20.2	259	28.9
Drug involvement	130	18.3	10	5.5	140	15.6
Intimate Partner Violence-Related	70	9.8	84	45.9	154	17.2
Jealousy (lovers triangle)	18	2.5	7	3.8	25	2.8
Gang-related	66	9.3	9	4.9	75	8.4
Brawl (mutual physical fight)	13	1.8	0	0.0	13	1.5
Mercy killing	0	0.0	2	1.1	2	0.2
Victim						
Victim used a weapon	135	19.0	5	2.7	140	15.6
Victim was a bystander	14	2.0	8	4.4	22	2.5
Justifiable self-defense	41	5.8	0	0.0	41	4.6
Intervener assisting crime victim	4	0.6	0	0.0	4	0.5

Table 28: Circumstances of homicides victims in North Carolina by sex, 2021

* Circumstances were available for 93.3% (712/763) of male victims, 97.9% (183/187) of female victims and 94.2% (895/950) of all homicide victims. The percentage of circumstances for homicide victims is based on the number of cases reporting circumstances in North Carolina in 2021.

Note: Each victim may have more than one circumstance, therefore the total number of circumstances may exceed the total number of homicides or responses may exceed 100%.

Table 29: Crimes precipitating homicides in North Carolina by sex, 2021

	• /					
	Male		Fema	le	Total	
	Number	%	Number	%	Number	%
Crime*						
Robbery	120	44.6	12	25.0	132	41.6
Burglary	55	20.4	15	31.3	70	22.1
Drug trade	29	10.8	0	0.0	29	9.1
Motor vehicle theft	8	3.0	3	6.3	11	3.5
Assault, homicide	35	13.0	7	14.6	42	13.2
Rape, sexual assault	2	0.7	4	8.3	6	1.9
Arson	4	1.5	4	8.3	8	2.5
Gambling	0	0.0	0	0.0	0	0.0
Other	16	5.9	3	6.3	19	6.0

* For 222 males, 37 females and 259 total victims whose homicide was precipitated by another serious crime.

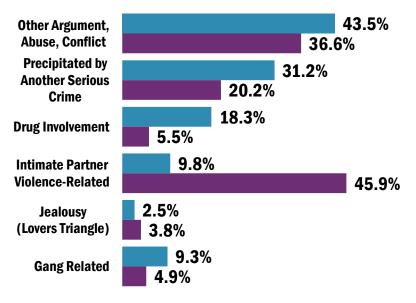
Note: Each homicide may be precipitated by more than one crime. Accordingly, the total number of crimes may exceed the total number of homicides, or responses may exceed 100%.

Figure 21: Circumstances of homicide victims and crimes precipitating homicides in North Carolina by sex, 2021

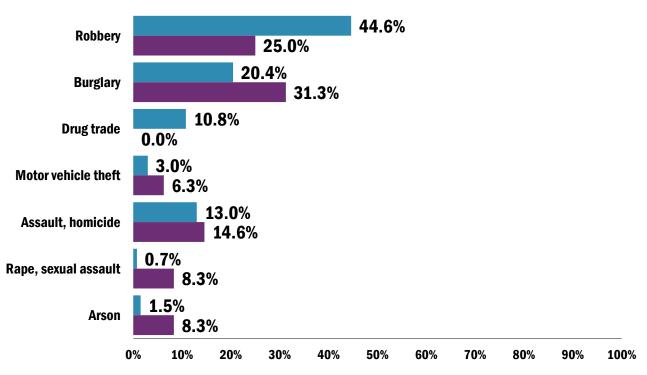
Males

Females

HOMICIDE CIRCUMSTANCE



CRIMES PRECIPITATING HOMICIDE



Note: Homicides may have more than one circumstance and precipitating crime; therefore, the responses add up to more than 100%. This figure does not include all circumstances and crimes.

	Number	%
Injury Location		
House, apartment	513	54.0
Motor vehicle (excluding school bus and public transportation)	158	16.6
Street/road, sidewalk, alley	86	9.1
Other commercial establishment (e.g., grocery store, retail outlet, laundromat)	43	4.5
Parking lot/public parking garage	39	4.1
Hotel/motel	21	2.2
Natural area (e.g., field, river, beaches, woods)	21	2.2
Bar, nightclub	16	1.7
Park, playground, public use area	11	1.2
Service station	9	1.0
Abandoned house, building, or warehouse	7	0.7
Industrial or construction areas (e.g., factory, warehouse)	2	0.2
College/university, including dormitory, fraternity/sorority	2	0.2
High school, including school dormitory, residential school	1	0.1
Other/unknown	21	2.2
Fotal Deaths	950	100

Table 30: Injury location for homicide victims in North Carolina, 2021

Section IV: Firearm Deaths

Table 31 and **Figure 22** display the manner of firearm deaths among North Carolina residents in2021.

 Table 32 characterizes firearm deaths by firearm type.

Key Findings:

- Half of firearm deaths were suicides (50.7%), followed by homicides (45.6%).
- Handguns were involved in 75.5% of all firearm deaths.

Table 33 characterizes violent deaths involving a firearm in 2021 among North Carolina residents by demographics of sex, race/ethnicity, and age. The overall firearm death rate per 100,000 North Carolina residents is displayed by race/ethnicity and sex in **Figure 23** and by age group in **Figure 24**.

Key Findings:

- In 2021, 1,779 North Carolinians died due to an injury from a firearm (16.8 per 100,000), representing 70.1% of all violent deaths.
- Males were 5.8 times more likely to die from firearm violence than females (29.1 versus 5.0 per 100,000, respectively).
- NH American Indian residents had the highest firearm violent death rate per 100,000 (35.4), followed by NH Black (30.5), NH White (14.1), Hispanic (10.7), and NH Asian residents (4.5).
- By age group, younger adults ages 20 to 24 had the highest firearm death rate per 100,000 (32.1), followed by those ages 25 to 34 (28.0), and 15 to 19 (25.6).

Table 34 provides counts and rates of firearm deaths by North Carolina county of residence in 2021.

Manner	Number	
Suicide	901	50.6
Homicide	812	45.6
Legal Intervention	25	1.4
Unintentional	32	1.8
Undetermined	9	0.5
Total Deaths	1,779	100

Table 31: Manner of Firearm Death in North Carolina, 2021

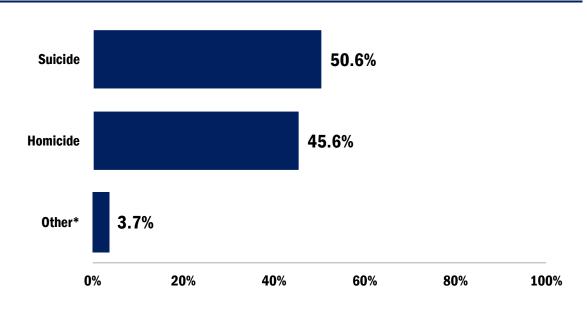


Figure 22: Manner of Firearm Death in North Carolina, 2021

*Other includes legal intervention, unintentional, and undetermined firearm deaths.

Firearm Type*	Number	%
Handgun	1,350	75.5
Rifle	171	9.6
Shotgun	130	7.3
Other/Unknown	136	7.6
Total Firearms Involved in Firearm Deaths	1,787	100

*Multiple firearm types were reported in 8 violent deaths; therefore, the total number of firearms exceeds the number of suicide firearm deaths (n=1,779).

Table 33: Demogra	phics of Firearm	Deaths in Nort	h Carolina. 2021

	Number	%	Rate	95% Cl
Sex				
Female	272	15.3	5.0	4.4 - 5.6
Male	1507	84.7	29.1	27.6 - 30.6
Race/Ethnicity				
White*	925	52.0	14.1	13.2 - 15.0
Black*	684	38.4	30.5	28.2 - 32.8
Asian*	16	0.9	4.5	2.3 - 6.6
American Indian*	39	2.2	35.4	24.3 - 46.5
Hispanic	111	6.2	10.7	8.7 - 12.7
Other/Unknown	4	0.2	-	-
Age Group (Years)				
< 1	0	0.0	*	*
1-4	7	0.4	1.5	0.4 - 2.6
5-9	6	0.3	1.0	0.2 - 1.7
10-14	20	1.1	3.0	1.7 - 4.3
15-19	180	10.1	25.6	21.9 - 29.3
20-24	236	13.3	32.1	28.0 - 36.2
25-34	396	22.3	28.0	25.2 - 30.8
35-44	233	13.1	17.5	15.3 - 19.8
45-54	223	12.5	16.6	14.4 - 18.7
55-64	192	10.8	14.1	12.1 - 16.1
65-74	150	8.4	13.8	11.5 - 16.0
75-84	97	5.5	18.5	14.9 - 22.2
≥85	39	2.2	21.1	14.4 - 27.7
Total Deaths	1,779	100.0	16.8	16.1 - 17.6

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population 95% CI = 95 % confidence interval for the rate

* Non-Hispanic

Note: The number of firearm-involved deaths was too small to support a rate calculation for infants younger than one.

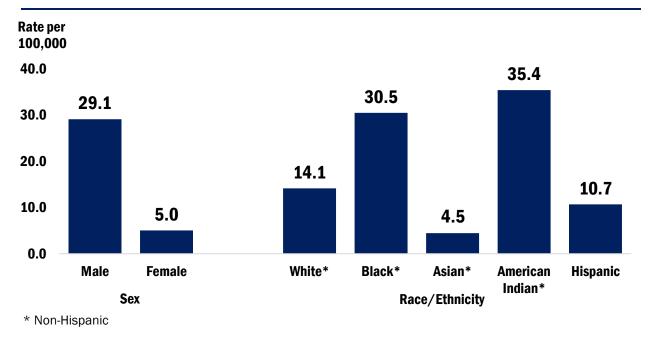
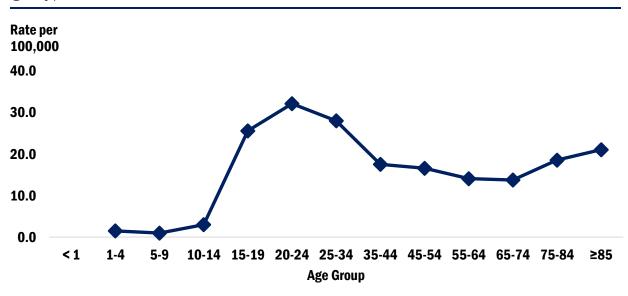


Figure 23: Crude firearm death rates in North Carolina by sex and race/ethnicity, 2021

Figure 24: Age-specific crude firearm death rates in North Carolina stratified by age group, 2021



Note: The number of deaths was too small to support a rate calculation for infants less than one year.

County	Number	Rate	County	Number	Rate	County	Number	Rate
Alamance	30	17.3	Franklin	19	26.5	Pamlico	3	*
Alexander	4	*	Gaston	49	21.2	Pasquotank	8	19.6
Alleghany	2	*	Gates	1	*	Pender	10	15.9
Anson	7	31.5	Graham	1	*	Perquimans	1	*
Ashe	9	33.6	Granville	17	27.7	Person	8	20.4
Avery	4	*	Greene	1	*	Pitt	20	11.6
Beaufort	10	22.5	Guilford	98	18.1	Polk	5	25.4
Bertie	5	28.7	Halifax	15	31.0	Randolph	20	13.8
Bladen	8	27.1	Harnett	27	19.9	Richmond	8	18.7
Brunswick	26	18.0	Haywood	15	24.0	Robeson	45	38.7
Buncombe	37	13.6	Henderson	20	17.1	Rockingham	13	14.2
Burke	10	11.4	Hertford	6	28.3	Rowan	32	21.6
Cabarrus	26	11.2	Hoke	10	18.8	Rutherford	11	17.0
Caldwell	20	24.8	Hyde	1	*	Sampson	9	15.2
Camden	1	*	Iredell	30	15.6	Scotland	16	46.8
Carteret	8	11.6	Jackson	4	*	Stanly	6	9.5
Caswell	1	*	Johnston	36	15.8	Stokes	7	15.7
Catawba	30	18.5	Jones	1	*	Surry	10	14.0
Chatham	9	11.5	Lee	15	23.4	Swain	1	*
Cherokee	3	*	Lenoir	11	20.1	Transylvania	4	*
Chowan	0	0.0	Lincoln	11	12.2	Tyrrell	1	*
Clay	2	*	McDowell	9	20.2	Union	20	8.2
Cleveland	21	20.9	Macon	16	42.7	Vance	11	26.1
Columbus	15	30.0	Madison	2	*	Wake	86	7.5
Craven	19	18.9	Martin	4	*	Warren	1	*
Cumberland	90	26.7	Mecklenburg	182	16.2	Washington	8	73.3
Currituck	4	*	Mitchell	2	*	Watauga	5	9.1
Dare	6	15.8	Montgomery	6	23.2	Wayne	23	19.7
Davidson	32	18.7	Moore	15	14.6	Wilkes	9	13.7
Davie	5	11.5	Nash	16	16.8	Wilson	16	20.4
Duplin	14	28.8	New Hanover	29	12.6	Yadkin	13	34.9
Durham	62	18.8	Northampton	8	46.8	Yancey	5	26.6
Edgecombe	19	39.3	Onslow	34	16.6			
Forsyth	80	20.7	Orange	14	9.4			

Table 34: Firearm death counts and rates by North Carolina county of residence, 2021

Crude rate per 100,000 population in NC county

* The number of deaths was too small to support a rate calculation.

Firearm Suicides

Table 35 characterizes suicides involving a firearm in 2021 among North Carolina residents by demographics of sex, race/ethnicity, and age. The firearm suicide rate per 100,000 North Carolina residents is displayed by race/ethnicity and sex in **Figure 25** and by age group and sex in **Figure 26**.

Key Findings:

- In 2021, 901 North Carolinians died from a suicide involving a firearm, representing 63.8% of all suicides.
- Males were 6.6 times as likely to die of a firearm suicide as females (17.0 versus 2.6 per 100,000, respectively).
- NH Whites had the highest firearm suicide rate (12.0 per 100,000), followed by NH American Indians (9.2 per 100,000), NH Blacks (6.0 per 100,000), Hispanics (5.8 per 100,000) and NH Asians (3.9 per 100,000).
- Adults ages 85 and older had the highest firearm suicide rates per 100,000 (20.0), followed by adults ages 75 to 84 (16.6), 20 to 24 (13.1), 65 to 74 (11.8), and 55 to 64 (9.8).
- Males ages 75 to 84 were 12.9 times as likely to die of a firearm suicide than females of the same age group (34.8 and 2.7 per 100,000, respectively).

Table 36 characterizes firearm suicides by firearm type.

Table 37 provides the 10 highest rates of firearm suicides by North Carolina county of residence in2021.

Key Findings:

- In 2021, handguns accounted for 80.2% of all firearm suicides.
- Zero firearm suicide victims had used more than one firearm.
- The three highest county firearm suicide rates in 2021 were Washington (51.2 per 100,000), Macon (44.2 per 100,000), and Ashe (32.6 per 100,000).

	Number	%	Rate	95% Cl
Sex				
Female	124	13.8	2.6	2.1 - 3.0
Male	777	86.2	17.0	15.8 - 18.2
Race/Ethnicity				
White*	711	78.9	12.0	11.1 - 12.8
Black*	118	13.1	6.0	4.9 - 7.0
Asian*	12	1.3	3.9	1.7 - 6.1
American Indian*	9	1.0	9.2	3.2 - 15.3
Hispanic	48	5.3	5.8	4.1 - 7.4
Other/Unknown	3	0.3	-	-
Age Group (Years)				
10-14	9	1.0	1.3	0.5 - 2.2
15-19	58	6.4	8.2	6.1 - 10.4
20-24	96	10.7	13.1	10.5 - 15.7
25-34	134	14.9	9.5	7.9 - 11.1
35-44	98	10.9	7.4	5.9 - 8.8
45-54	119	13.2	8.8	7.3 - 10.4
55-64	134	14.9	9.8	8.2 - 11.5
65-74	129	14.3	11.8	9.8 - 13.9
75-84	87	9.7	16.6	13.1 - 20.1
≥85	37	4.1	20.0	13.5 - 26.4
Total Deaths	901	100.0	9.6	9.0 - 10.3

Table 35: Demographics of firearm suicide in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population 95% Cl = 95% confidence interval for the rate

* Non-Hispanic

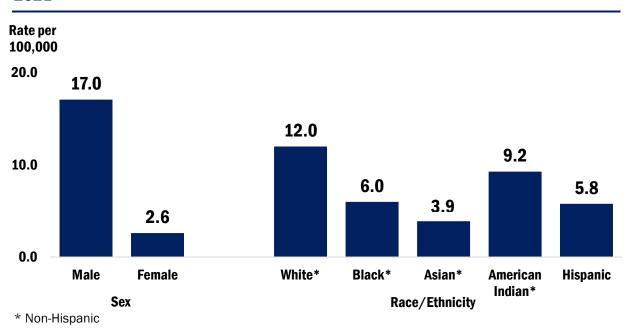
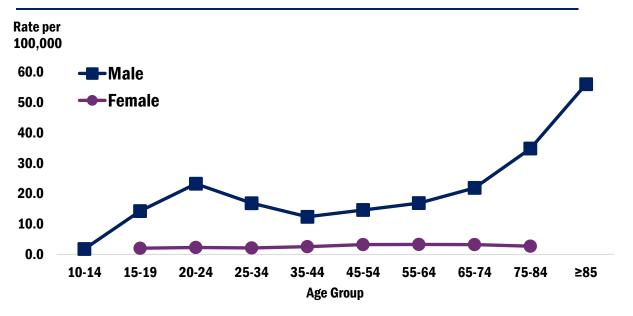


Figure 25: Crude firearm suicide rates in North Carolina by sex and race/ethnicity, 2021

Figure 26: Age-specific crude firearm suicide rates in North Carolina stratified by age group and sex, 2021



Note: The number of deaths was too small to support a rate calculation for females ages 10-14, and 85 and older.

Firearm Type*	Number	%
Handgun	723	80.2
Rifle	79	8.8
Shotgun	90	10.0
Other/unknown	9	1.0
Total Firearms Involved in Firearm Suicides	901	100

Table 36: Firearm suicide firearm type in North Carolina, 2021

*Multiple firearm types were reported in zero firearm suicide deaths; therefore, the total number of firearms does not exceed the number of suicide firearm deaths (n=901).

Table 37: Ten highest firearm suicide rates in North Carolina by county of residence,2021

County	Rate	County	Rate
Washington	51.2	Franklin	18.8
Macon	44.2	Granville	18.2
Ashe	32.6	Cleveland	16.9
Yadkin	24.1	Onslow	16.1
Haywood	21.2	Caldwell	15.2

Circumstances of Firearm Suicides Compared to Non-Firearm Suicides

Circumstances surrounding suicides varied greatly between those involving firearms and those involving other means. Circumstance data were available for 95.3% of firearm suicides and 97.3% of non-firearm suicides in 2021. **Table 38** and **Figure 27** describe the circumstances for firearm and non-firearm suicide victims ages 10 or older in North Carolina in 2021.

Key Findings:

- Firearm suicide victims were less likely than victims of suicides involving other means to have even been treated for a mental health problem (58.0% and 67.4%) or to have been experiencing a current mental health problem (57.5% and 66.0%).
- Firearm suicide victims were slightly more likely to have a current depressed mood (28.3% versus 28.0%), but less likely to be receiving current mental health treatment (25.0% and 35.4%)
- Victims of firearm suicide were less likely to have had a substance use problem other than alcohol (12.6%) compared to suicide victims who used another means (28.8%).
- Firearm suicide victims were slightly more likely to have experienced an intimate partner problem (27.9% versus 26.2%).
- Victims of firearm suicide were more likely to have been experiencing a physical health problem (27.6% versus 15.1%), but slightly less likely to have experienced a recent or imminent crisis within two weeks of their death (44.1% and 45.7%).
- Firearm suicide victims were much less likely to have a history of a suicide attempt(s) than other suicide victims (10.4% versus 27.0%), and less likely to have a history of suicidal thoughts (30.6% versus 34.6%).

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Table 38: Circumstances of firearm suicide compared to non-firearm* suicide in	1 North
Carolina, 2021	

	Firearm	Suicide	Non-Firearm	** Suicide
Circumstance*	Number	%	Number	%
Mental Health				
Ever treated - mental health	498	58.0	335	67.4
Current mental health problem	494	57.5	328	66.0
Current depressed mood	243	28.3	139	28.0
Current treatment MH	215	25.0	176	35.4
Substance Abuse/Addiction				
Alcohol problem	130	15.1	90	18.1
Other substance problem	108	12.6	143	28.8
Other addiction problem	1	0.1	1	0.2
Interpersonal				
Intimate partner problem	240	27.9	130	26.2
Other relationship problem	18	2.1	11	2.2
Perpetrator of intimate partner violence	51	5.9	7	1.4
Death of family/friend	55	6.4	28	5.6
Suicide death of family/friend in past 5 years	13	1.5	3	0.6
Life Stressor				
Physical health problem	237	27.6	75	15.1
Job problem	68	7.9	29	5.8
Criminal/legal problem	51	5.9	46	9.3
Financial problem	38	4.4	22	4.4
Legal problem, other	19	2.2	27	5.4
School problem	13	1.5	9	1.8
Recent crisis	379	44.1	227	45.7
Suicide Event				
Left a suicide note	225	26.2	185	37.2
Suicide disclosed	194	22.6	133	26.8
History of suicide attempt	89	10.4	134	27.0
History of suicidal thoughts	263	30.6	172	34.6

* Circumstances were available for 95.3% (859/901) of firearm suicide victims, and 97.3% (497/511) of nonfirearm suicide victims. The percentage of circumstances for suicide victims is based on the number of cases reporting circumstances in North Carolina in 2021.

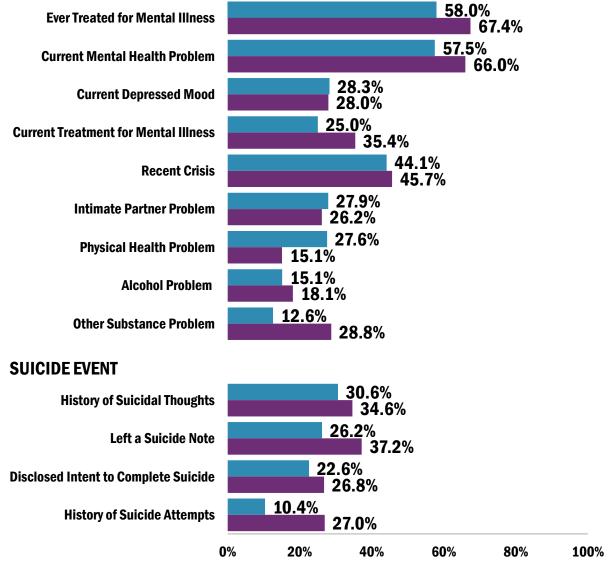
**Non-firearm includes hanging, strangulation or suffocation, poisoning, sharp instrument, fall, drowning, motor vehicle including buses and motorcycles, fire or burns, or other.

Figure 27: Suicide circumstances by firearm and non-firearm \ast means in North Carolina, 2021

Firearm Suicide

Non-Firearm Suicide

SUICIDE CIRCUMSTANCE



*Non-firearm includes hanging, strangulation or suffocation, poisoning, sharp instrument, fall, drowning, motor vehicle including buses and motorcycles, fire or burns, or other.

Note: For Table 38 and Figure 27, firearm and non-firearm suicide victims may have more than one circumstance; Therefore, the responses add up to more than 100%. This figure does not include all circumstances.

Section IV

Toxicology Testing and Results of Firearm Suicides Compared to Non-Firearm Suicides

Toxicology testing was performed on all suicide victims at the medical examiner's discretion to identify substances believed to have contributed to the death or circumstances surrounding the death. A positive test for a substance does not necessarily indicate that the substance was present at a lethal level. Testing of North Carolina firearm and non-firearm suicide victims in 2021 is shown in **Table 39**.

Key Findings:

- Alcohol was tested in 92.2% of firearm suicides. Of those victims tested, alcohol was present in 25.8% of firearm suicide victims (26.3% of male victims and 22.6% of female victims). This is similar to non-firearm suicides, where 89.8% of victims were tested for alcohol, and 25.8% of victims were found to have alcohol present.
- Testing for substances other than alcohol was infrequent in firearm suicides. The average of testing for substances other than alcohol in all firearm suicide victims was 1.6%, and of those tested, substances other than alcohol were present in 0.3% of victims. In non-firearm suicides, substances were tested in 13.7% of victims on average, and of those tests, 5.0% of victims were found to have substances other than alcohol present.
- Substances such as cocaine and opiates were found to be tested more often in non-firearm suicides (2.4% vs. 27.6% for cocaine and 2.4% vs. 26.0% for opiates, for firearm and non-firearm suicides, respectively).
- Overall positive toxicology test results were less frequent for firearm suicide victims (3.5% vs. 6.9%).

	Firearm	Firearm Suicide		m* Suicide
	Total	%	Total	%
Alcohol				
Tested with results	831	92.2	459	89.8
Alcohol present in those tested	232	25.8	132	25.8
Amphetamines				
Tested with results	7	0.8	21	4.1
Amphetamines present in those tested	4	0.4	14	2.7
Antidepressant				
Tested with results	3	0.3	66	12.9
Antidepressant present in those tested	3	0.3	65	12.7
Cocaine				
Tested with results	22	2.4	141	27.6
Cocaine present in those tested	3	0.3	4	0.8
Opiates				
Tested with results	22	2.4	133	26.0
Opiates present in those tested	5	0.6	47	9.2
Anticonvulsants				
Tested with results	22	2	138	27.0
Anticonvulsants present in those tested	1	0	29	5.7
Benzodiazepine				
Tested with results	22	2	142	27.8
Benzodiazepine present in those tested	2	0	40	7.8
Other substances*				
Tested with results	2	0.2	59	2.9
Other drugs present in those tested	2	0.2	59	2.9

Table 39: Toxicology testing and results by firearm or non-firearm* suicide in North Carolina, 2020

* Non-firearm includes hanging, strangulation or suffocation, poisoning, sharp instrument, fall, drowning, motor vehicle including buses and motorcycles, fire or burns, or other.

** Other substances include carbon monoxide.

Note: Testing refers to conducted toxicology tests of suicide victims.

Section IV

Firearm Homicide

Table 40 characterizes firearm homicides in 2021 among North Carolina residents by demographics of sex, race/ethnicity, and age. The overall firearm homicide rate per 100,000 North Carolina residents is displayed by race/ethnicity and sex in **Figure 28** and by age group and sex in **Figure 29**.

Key Findings:

- In 2021, 812 North Carolinians were killed in a firearm homicide, representing 85.5% of total homicides.
- Males were 5.1 times more likely to die from firearm homicide than females (14.7 versus 2.9 per 100,000, respectively).
- NH Black residents had the highest firearm homicide rate (27.6 per 100,000), followed by NH American Indian (26.7 per 100,000), Hispanic (7.0 per 100,000) and NH White (3.0 per 100,000). There were two NH Asian firearm homicide deaths in 2021, which was too small to compute a rate.
- Young adults ages 20 to 24 years had the highest firearm homicide rate (18.6 per 100,000), followed by those ages 25 to 34 (17.5 per 100,000), and 15 to 19 (16.2 per 100,00).
- Males ages 15 to 19 were 11.2 times as likely to die from a firearm homicide than females of the same age (29.3 and 2.6 per 100,000, respectively).

 Table 41 characterizes firearm homicides by firearm type.

Table 42 provides the 10 highest rates of firearm homicides by North Carolina county of residence in2021.

Key Findings:

- Handguns accounted for 71.6% of all firearm homicides in 2021.
- More than one firearm was used in five homicide deaths.
- The three highest county firearm homicide rates in 2021 were Scotland (35.1 per 100,000), Edgecombe (31.0 per 100,000), and Robeson (30.1 per 100,000).

	Number	%	Rate	95% Cl
Sex				
Female	139	17.1	2.9	2.4 - 3.4
Male	673	82.9	14.7	13.6 - 15.9
Race/Ethnicity				
White*	180	22.2	3.0	2.6 - 3.5
Black*	545	67.1	27.6	25.3 - 29.9
Asian*	2	0.2	*	*
American Indian*	26	3.2	26.7	16.4 - 37.0
Hispanic	58	7.1	7.0	5.2 - 8.8
Other/unknown	1	0.1	-	-
Age Group (Years)				
< 1	0	0.0	*	*
1-4	3	0.4	*	*
5-9	3	0.4	*	*
10-14	9	1.1	1.3	0.5 - 2.2
15-19	114	14.0	16.2	13.2 - 19.2
20-24	137	16.9	18.6	15.5 - 21.8
25-34	248	30.5	17.5	15.4 - 19.7
35-44	124	15.3	9.3	7.7 - 11.0
45-54	93	11.5	6.9	5.5 - 8.3
55-64	52	6.4	3.8	2.8 - 4.8
65-74	18	2.2	1.7	0.9 - 2.4
75-84	9	1.1	1.7	0.6 - 2.8
≥85	2	0.2	*	*
Total Deaths	812	100.0	8.7	8.1 - 9.3

Table 40: Demographics of firearm homicides in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population 95% CI = 95% confidence interval for the rate

* Non-Hispanic

Note: The number of firearm-involved deaths was too small to support a rate calculation for infants younger than one and for ages 1-4, 5-9, and 85 and older.

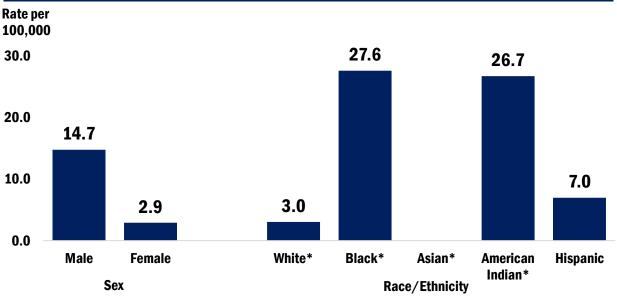


Figure 28: Crude firearm homicide rates in North Carolina by sex and race/ethnicity, 2021

* Non-Hispanic

Note: The number of firearm-involved deaths was too small to support a rate calculation for NH Asians.

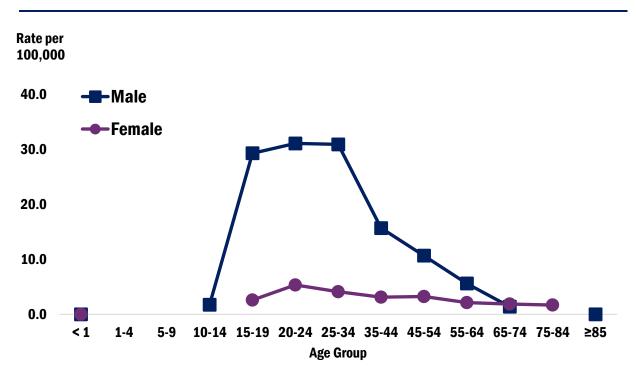


Figure 29: Age-specific crude firearm homicide rates in North Carolina stratified by age group and sex, 2021

Note: The number of deaths was too small to support a rate calculation for males ages 1-4, 5-9, and 75-84, and for females ages 1-4, 5-9, 10-14, and 85 and older.

	Number	%
Firearm Type*		
Handgun	585	71.6
Rifle	77	9.4
Shotgun	32	3.9
Other/unknown	123	15.1
Total Firearms Involved in Firearm Homicides	817	100

Table 41: Type of firearm used in firearm homicide in North Carolina, 2021

*Multiple firearm types were reported in five firearm homicide deaths; therefore, the total number of firearms exceeds the number of homicide firearm deaths (n=812).

Table 42: Ten highest rates of firearm homicide by North Carolina county of residence,2021

County	Rate	County	Rate
Scotland	35.1	Anson	27.0
Edgecombe	31.0	Vance	21.4
Robeson	30.1	Bladen	20.3
Bertie	28.7	Halifax	18.6
Hertford	28.3	Columbus	18.0

Section IV

Circumstances of Firearm Homicides Compared to Non-Firearm Homicides

Circumstance of homicides differed based on the involvement of a firearm. Circumstance data were available for 93.5% of firearm homicides, and for 98.6% of non-firearm homicides in 2021. **Table 43** and **Figure 30** describe the circumstances for firearm and non-firearm homicide in North Carolina in 2021.

Key Findings:

- Firearm homicides were slightly more likely to have followed an argument, abuse, or conflict than homicides involving other means (42.2% versus 41.9%).
- Firearm homicides were more likely to have been precipitated by another serious crime (29.4% versus 26.5%).
- Drug dealing, drug trade, or drug use (drug involvement) was suspected to have played a role in precipitating the incident in 16.9% of firearm homicides compared to 8.8% in other homicides. Firearm homicides were more likely to have been gang related (9.6% versus 1.5%).
- Firearm homicides were less likely to have been related to intimate partner violence (16.9% versus 19.1%).

Circumstance*		Firearm H	Iomicide	Non-Firearm	** Homicide
Circums			%	Number	%
Event					
	Other argument, abuse, conflict	320	42.2	57	41.9
	Precipitated by another serious crime	223	29.4	36	26.5
	Drug involvement	128	16.9	12	8.8
	Intimate Partner Violence-Related	128	16.9	26	19.1
	Jealousy (lovers triangle)	23	3.0	2	1.5
	Gang-related	73	9.6	2	1.5
	Brawl (mutual physical fight)	11	1.5	2	1.5
	Mercy killing	2	0.3	0	0.0
Victim					
	Victim used a weapon	133	17.5	7	5.2
	Victim was a bystander	22	2.9	0	0.0
	Justifiable self-defense	37	4.9	4	2.9
	Intervener assisting crime victim	4	0.5	0	0.0

Table 43: Firearm homicide victim precipitating circumstances in North Carolina, 2021

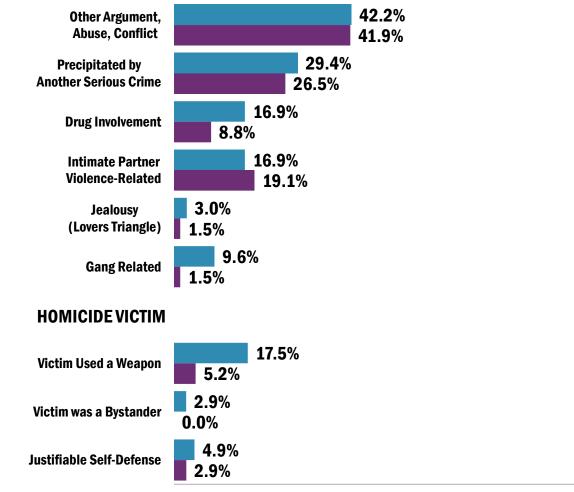
* Circumstances were available for 93.5% (759/812) of firearm homicide victims, and 98.6% (136/138) of nonfirearm homicide victims. The percentage of circumstances for homicide victims is based on the number of cases reporting circumstances in North Carolina in 2021.

** Non-firearm includes sharp instrument, blunt instrument, personal weapons, hanging, strangulation or suffocation, fire or burns, intentional neglect, poisoning, motor vehicle including buses and motorcycles, and unknown.

Figure 30: Firearm and non-firearm* homicide victim circumstances in North Carolina, 2021

- Firearm Homicide
- Non-Firearm Homicide

HOMICIDE CIRCUMSTANCE



0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

* Non-firearm includes sharp instrument, blunt instrument, personal weapons, hanging, strangulation or suffocation, fire or burns, intentional neglect, poisoning, motor vehicle including buses and motorcycles, and unknown.

Note: For Table 38 and Figure 27, firearm and non-firearm suicide victims may have more than one circumstance; Therefore, the responses add up to more than 100%. This figure does not include all circumstances.

Section IV

Toxicology Testing and Results for Firearm vs. Non-Firearm Homicide Deaths

Toxicology testing was performed on all homicide victims at the medical examiner's discretion to identify substances believed to have contributed to the death or circumstances surrounding the death. A positive test for a substance does not necessarily indicate that the substance was present at a lethal level. Testing of North Carolina firearm homicide and non-firearm homicide victims in 2021 is shown in **Table 44**.

Key Findings:

- Alcohol was tested in 95.0% of firearm homicides. Of those victims tested, alcohol was present in 26.6% of firearm suicide victims, 28.1% of male victims and 19.4% of female victims. This is slightly lower when compared to non-firearm homicides, where 85.5% of victims were tested for alcohol, and 29.0% of victims were found to have alcohol present.
- Testing for substances other than alcohol was infrequent in firearm homicides. The average of tests for substances other than alcohol in all firearm homicide victims was 3.0%, and of those tests, positive results were found 0.6% of the time. In non-firearm homicides, substances were tested 17.1% of the time on average, and of those tests, 3.8% were positive.
- Substances such as cocaine and opiates were found to be tested for more often in non-firearm homicides (6.0% vs. 35.5% for cocaine and 5.9% vs. 32.6% for opiates, for firearm and non-firearm homicides, respectively).
- Overall positive toxicology test results were less frequent for firearm homicide victims (3.2% vs. 6.3%).

	Firearm Homicide		Non-Firearn	n* Homicide
Toxicology Tests and Results	Total	%	Total	%
Alcohol				
Tested with results	771	95.0	118	85.5
Alcohol present in those tested	216	26.6	40	29.0
Amphetamines				
Tested with results	17	2.1	13	9.4
Amphetamines present in those tested	14	1.7	9	6.5
Antidepressant				
Tested with results	2	0.3	5	3.6
Antidepressant present in those tested	2	0.3	4	2.9
Cocaine				
Tested with results	49	6.0	49	35.5
Cocaine present in those tested	7	0.9	9	6.5
Opiates				
Tested with results	48	5.9	45	32.6
Opiates present in those tested	10	1.2	6	4.4
Anticonvulsants				
Tested with results	47	6	47	34.1
Anticonvulsants present in those tested	5	1	9	6.5
Benzodiazepine				
Tested with results	48	6	46	33.3
Benzodiazepine present in those tested	1	0	3	2.2
Other substances*				
Tested with results	8	0.3	7	1.7
Other drugs present in those tested	8	0.3	7	1.7

Table 44: Firearm homicide victim toxicology testing and results in North Carolina, 2021

*Non-firearm includes sharp instrument, blunt instrument, personal weapons, hanging, strangulation or suffocation, fire or burns, intentional neglect, poisoning, motor vehicle including buses and motorcycles, and unknown.

**Other substances include carbon monoxide, barbiturates, antipsychotics, and marijuana.

Section IV

Unintentional Firearm Death

An unintentional firearm death is a death that results from the discharge of a firearm that killed a victim, but the firearm was not intentionally directed at the victim. Therefore, unintentional firearm death is considered separately from a firearm suicide or homicide. **Table 34** describes the unintentional firearm injury victims in North Carolina in 2021 by sex, race/ethnicity, and age. Caution should be used in interpreting rates; rates may be unstable due to the small number of unintentional firearm deaths. **Table 35** displays the type of firearm for unintentional firearm deaths in North Carolina in 2021. **Table 36** provides the number of unintentional firearm deaths in 2021 by North Carolina county of residence.

Key Findings:

- In 2021, 32 North Carolinians (0.3 per 100,000) died from an unintentional firearm injury.
- Most (78.1%) of unintentional firearm victims were male, 43.8% were NH white, and 40.6% were NH Black.
- Most deaths from an unintentional firearm injury occurred among those ages 5 to 64. Those ages 15 to 19 had the highest proportion of unintentional firearm death (25.0%).
- The most common firearm involved in unintentional firearm deaths was a handgun (71.9%).

NC-VDRS collects data on the circumstances surrounding unintentional firearm deaths to help understand the underlying causes of death. All of the 32 unintentional firearm deaths had data available for at least one circumstance related to the death. Since each death may have more than one circumstance, the total number of circumstances may exceed the total number of deaths. **Table 37** summarizes the circumstances of unintentional firearm deaths in North Carolina in 2021.

Key Findings:

- The most common circumstance among mechanisms of unintentional firearm injuries resulting in death included: the victim unintentionally pulled the trigger (18.8%), the shooter thought magazine was unloaded (15.6%), the gun discharged when dropped (9.4%), the shooter thought the gun was unloaded (unspecified reason) (9.4%), the shooter thought the gun was a toy (6.3%), the bullet ricocheted and hit the victim (6.3%), or the gun had a defect or malfunctioned (6.3%).
- Among contexts of unintentional firearm injuries resulting in death, the most common contexts included: the injury occurred while playing with a firearm (43.8%), while showing the firearm to others (21.9%), while cleaning the firearm (6.3%), or while target shooting (6.3%).

	Number	%	Rate	95% CI
Sex				
Female	7	21.9	0.1	0.0 - 0.2
Male	25	78.1	0.5	0.3 - 0.7
Race/Ethnicity				
White**	14	43.8	0.2	0.1 - 0.3
Black**	13	40.6	0.6	0.3 - 0.9
Asian**	0	0.0	0.0	-
American Indian**	0	0.0	0.0	-
Hispanic	2	6.3	*	*
Other/Unknown	0	0.0	-	-
Age Group (Years)				
< 1	0	0.0	0.0	-
1-4	4	12.5	*	*
5-9	3	9.4	*	*
10-14	2	6.3	*	*
15-19	8	25.0	1.1	0.3 - 1.9
20-24	3	9.4	*	*
25-34	3	9.4	*	*
35-44	2	6.3	*	*
45-54	2	6.3	*	*
55-64	4	12.5	*	*
65-74	1	3.1	*	*
75-84	0	0.0	0.0	-
≥85	0	0.0	0.0	-
Total Deaths	32	100	0.3	0.2 - 0.4

Table 45: Demographics of unintentional firearm death victims in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population

95% CI = 95 % confidence interval for the rate

* Non-Hispanic

Note: The number of firearm-involved deaths was too small to support a rate calculation for Hispanics and for ages 1-4, 5-9, 10-14, 20-24, 25-34, 35-44, 45-54 and 65-74.

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	Number	%
Firearm Type*		
Handgun	23	71.9
Rifle	4	12.5
Shotgun	5	15.6
Other/Unknown	0	0.0
Total Firearms Involved in Unintentional Firearm Deaths	32	100.0

Table 46: Type of firearm in unintentional firearm deaths in North Carolina, 2021

* Multiple firearm types were reported in zero unintentional firearm deaths; therefore, the total number of firearms does not exceed the number of unintentional firearm deaths (n=32).

Table 47: Unintentional firearm deaths in North Carolina by county of residence, 2021

County	Number	County	Number
Alamance	1	Lenoir	1
Craven	1	McDowell	1
Cumberland	1	Mecklenburg	5
Davidson	1	Nash	1
Duplin	1	Pasquotank	2
Forsyth	3	Pitt	1
Gaston	1	Rowan	1
Guilford	1	Sampson	2
Halifax	1	Scotland	1
Henderson	1	Transylvania	1
Hoke	1	Wake	1
Hyde	1	Wilson	1

Circumstances*	Number	%			
Context					
Occurred while playing with gun	14	43.8			
Occurred while cleaning gun	2	6.3			
Occurred while on hunting trip	1	3.1			
Gun fired while loading or unloading	1	3.1			
Occurred while showing gun to others	7	21.9			
Occurred while target shooting	2	6.3			
Other context	4	12.5			
Mechanism					
Gun discharged when dropped	3	9.4			
Shooter thought gun was unloaded, unspecified reason	3	9.4			
Unintentionally pulled trigger	6	18.8			
Shooter thought gun was a toy	2	6.3			
Shooter thought magazine was unloaded	5	15.6			
Bullet ricocheted and hit victim	2	6.3			
Gun had defect or malfunctioned	2	6.3			
Occurred while holstering/unholstering	1	3.1			
Shooter thought gun safety was engaged	1	3.1			
Other mechanism	3	9.4			

Table 48: Circumstances of unintentional firearm deaths in North Carolina, 2021

*Circumstances were available for 32/32 (100.0%) of unintentional firearm deaths in North Carolina during 2021.

Note: Each death may have more than one circumstance, therefore the total number of circumstances may exceed the total number of deaths.

Section V: Legal Intervention

NC-VDRS compiles data on legal intervention deaths which are classified as homicide by the medical examiner but are defined by NVDRS as legal intervention. Legal intervention deaths represent victims killed by a police officer, military police officer or other peace officer acting in the line of duty. In addition, legal executions are not included in the national system but are reported in the state system as legal intervention deaths. **Table 49** summarizes the demographics of legal intervention victims in North Carolina in 2021. Caution should be used in interpreting the rates because of the small number of legal intervention deaths. **Table 50** shows the type of weapon used in legal intervention deaths in 2021. **Table 51** lists the number of legal intervention deaths in 2021 by North Carolina county of residence.

Key Findings:

- In 2021, 32 residents of North Carolina (0.3 per 100,000) died from legal intervention.
- All but one of the victims were male, and most were from 25 to 34 years of age (34.4%).
- All but seven legal intervention deaths occurred by firearm. Of the total firearms involved (n=25), handguns were the most frequently used (42.9%).

	Number	%	Rate	95% CI
Sex				
Female	1	3.1	*	*
Male	31	96.9	0.6	0.4 - 0.8
Race/Ethnicity				
White**	19	59.4	0.3	0.2 - 0.4
Black**	8	25.0	0.4	0.1 - 0.6
Asian**	0	0.0	0.0	-
American Indian**	2	6.3	*	*
Hispanic	2	6.3	*	*
Other/unknown	1	3.1	-	-
Age Group (Years)				
15-19	0	0.0	*	*
20-24	3	9.4	*	*
25-34	11	34.4	0.8	0.3 - 1.2
35-44	6	18.8	0.5	0.1 - 0.8
45-54	8	25.0	0.6	0.2 - 1.0
55-64	3	9.4	*	*
65-74	1	3.1	*	*
75-84	0	0.0	0.0	-
≥85	0	0.0	0.0	-
Total Deaths	32	100	0.3	0.2 - 0.4

Table 49: Demographics of legal intervention death victims in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population

95% CI = 95 % confidence interval for the rate

** Non-Hispanic

Note: The number of deaths was too small to support a rate calculation for females, NH American Indians, Hispanics and for ages 15-19, 20-24, 55-64 and 65-74.

Weapon Type	Number	%
Firearm		
Handgun	12	34.3
Rifle	10	28.6
Shotgun	2	5.7
Unknown firearm type	4	11.4
Other, non-firearm weapons	7	20.0
Total Weapons Involved in Legal Intervention Deaths*	35	100

Table 50: Type of weapon for legal intervention deaths in North Carolina, 2021

*Multiple firearm types were reported for two legal intervention fatalities in 2021; therefore, the total number of weapons exceeds the number of legal intervention deaths.

Table 51: Legal intervention deaths in North Carolina by county of residence, 2021 County Number

County	Number	County	Number
Beaufort	1	McDowell	1
Brunswick	1	Mecklenburg	3
Caldwell	1	Pamlico	1
Cleveland	1	Pasquotank	1
Davidson	3	Pender	1
Edgecombe	1	Person	2
Forsyth	2	Pitt	1
Gaston	3	Robeson	1
Granville	1	Rowan	1
Guilford	5	Sampson	1

Section V

Circumstances of Firearm Legal Intervention Deaths

Circumstance data were available for all 32 (100%) firearm legal intervention deaths in 2021. **Table 52** and **Figure 31** describe the circumstance(s) surrounding firearm legal intervention deaths in North Carolina in 2021.

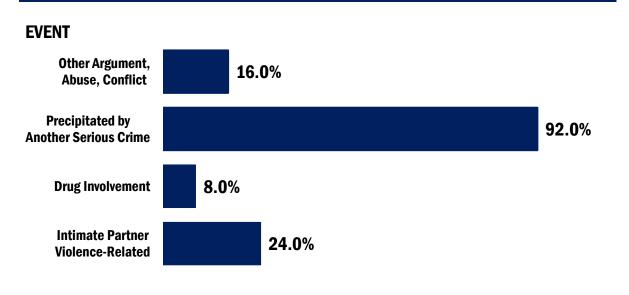
Key Findings:

- In 2021, 92.0% of firearm legal intervention deaths were precipitated by another serious crime, and 100% were considered justifiable self-defense.
- Less frequent circumstances among firearm legal intervention deaths were intimate partner violence (24.0%), an argument, abuse, or conflict (16.0%), and drug involvement (8.0%).

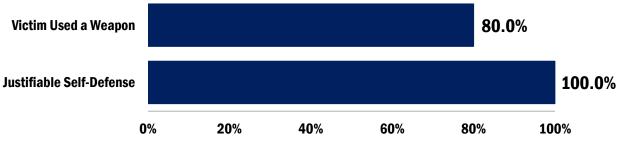
Table 52: Circumstances surrounding firearm legal intervention deaths in NorthCarolina, 2021

Circumstance*	Number	%
Event		
Other argument, abuse, conflict	4	16.0
Precipitated by another serious crime	23	92.0
Drug involvement	2	8.0
Intimate Partner Violence-Related	6	24.0
Victim		
Victim used a weapon	20	80.0
Justifiable self-defense	25	100.0

Figure 31: Firearm law enforcement victim precipitating homicide circumstances in North Carolina, 2021



VICTIM



Section VI: Child Death

Table 53 characterizes violent deaths for children under the age of 18 years in North Carolina in 2021by sex, race/ethnicity, and age.

Key Findings:

- In 2021, 168 children in North Carolina (7.4 per 100,000) died as a result of violence.
- Male children were 2.6 times as likely to be victims of violent death as female children (10.6 vs. 4.0 per 100,000, respectively).
- The violent death rate for children per 100,000 was 3.7 times higher for NH Blacks (16.9 per 100,000) than for NH whites (4.6 per 100,000).
- The highest death rate was for children ages 15 to 19 (25.6 per 100,000). The lowest rate was for children ages five to nine (1.5 per 100,000).

Manner of violent death for child victims in North Carolina in 2021 is displayed in **Figure 32**, and it is shown stratified by sex in **Table 54**, by race/ethnicity in **Table 55** and by age group in **Table 56**.

Key Findings:

- The most common causes of violent death for all child victims were homicide (51.2%) followed by suicide (36.3%).
- Homicide was the cause of violent death for the majority of NH Black children (70.9%).
- Homicide was the leading cause of violent death for infants less than one year (66.7%), for children ages one to four (68.4%), children ages five to nine (66.7%), and children ages 15 to 17 (51.9%)
- Suicide was the cause of violent death in the majority NH white children (64.2%).
- Suicide was the leading cause of violent death for children ages 10 to 14 (60.0%).

Method of child violent death in North Carolina in 2021 is provided stratified by sex in **Table 57**, by race/ethnicity in **Table 58** and by age group in **Table 59**.

Key Findings:

- The most common methods of violent death for all child victims were firearm (70.2%), hanging, strangulation or suffocation (12.5%), and personal weapons (i.e., abuse by a caretaker) (4.8%).
- Firearm was the leading method of child violent death for males (78.1%), NH Blacks (79.1%), and Hispanics (66.7%).
- Personal weapons (50.0%) were the leading method of violent death in infants less than one year. For children ages one to four, firearms (36.8%), personal weapons (21.1%), and blunt instrument (21.1%) were the leading methods of death. There were six child deaths for ages five to nine, attributed to firearms (66.7%), blunt instrument (22.2%), and sharp instrument (11.1%). Firearms (66.7%) and hanging, strangulation, or suffocation (33.3%) were the top causes of violent child death for ages 10 to 14, as well as for ages 15 to 17 (81.7% and 9.6% respectively).

	Number	%	Rate	95% Cl
Sex				
Female	45	26.8	4.0	2.9 - 5.2
Male	123	73.2	10.6	8.7 - 12.4
Race/Ethnicity				
White**	53	31.5	4.6	3.3 - 5.8
Black**	86	51.2	16.9	13.3 - 20.4
Asian**	3	1.8	*	*
American Indian**	2	1.2	*	*
Hispanic	24	14.3	6.3	3.8 - 8.9
Other/unknown	0	0.0	-	-
Age Group (Years)				
<1	6	3.6	5.2	1.0 - 9.3
1-4	19	11.3	4.0	2.2 - 5.8
5-9	9	5.4	1.5	0.5 - 2.4
10-14	30	17.9	4.5	2.9 - 6.1
15-17	104	61.9	25.6	20.7 - 30.5
Total Deaths	168	100	7.4	6.2 - 8.5

Table 53: Demographics of child (under age 18) violent deaths in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population

95% CI = 95 % confidence interval for the rate

** Non-Hispanic

Note: The number of deaths was too small to support a rate calculation for NH Asians and NH American Indians.

Table 54: Manner of child (under age 18) violent death in North Carolina by sex, 2021

		÷ ,						
Ма	le	Fem	ale	Total				
Number %		Number	%	Number	%			
65	52.9	21	46.7	86	51.2			
43	35.0	18	40.0	61	36.3			
4	3.3	3	6.7	7	4.2			
11	8.9	3	6.7	14	8.3			
123	100	45	100	168	100			
	Number 65 43 4 11	6552.94335.043.3118.9	Number%Number6552.9214335.01843.33118.93	Number%6552.92146.74335.0433.33.36.7118.93	Number%Number%Number6552.92146.7864335.01840.06143.336.77118.936.714			

Section VI

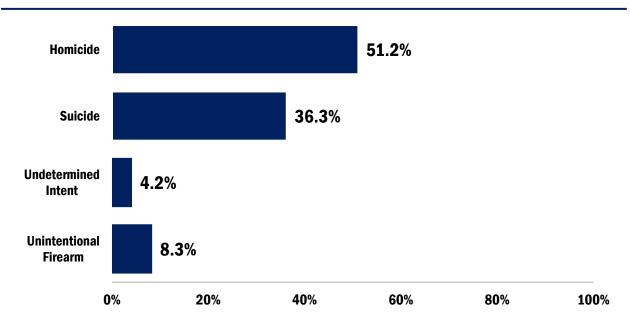


Figure 32: Manner of child (under age 18) violent death in North Carolina, 2021

Table 55: Manner of child (under age 18) violent death in North Carolinaby race/ethnicity, 2021

	White) *	Black*		American Indian*		Asian*		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%
Manner of Death										
Homicide	11	20.8	61	70.9	0	0.0	0	0.0	14	58.3
Suicide	34	64.2	14	16.3	1	50.0	3	100.0	9	37.5
Undetermined Intent	4	7.6	3	3.5	0	0.0	0	0.0	0	0.0
Unintentional Firearm	4	7.6	8	9.3	1	50.0	0	0.0	1	4.2
Total Deaths	53	100	86	100	2	5.4	3	100	24	100

There were zero child violent deaths where the race/ethnicity was unknown or other.

* Non-Hispanic

Section VI

	<1		1-4	1-4		5-9		10-14		15-17	
	Number	%	Number	%	Number	%	Number	%	Number	%	
Manner of Death											
Homicide	4	66.7	13	68.4	6	66.7	9	30.0	54	51.9	
Suicide	0	0.0	0	0.0	0	0.0	18	60.0	43	41.4	
Undetermined Intent	2	33.3	2	10.5	0	0.0	1	3.3	2	1.9	
Unintentional Firearm	0	0.0	4	21.1	3	33.3	2	6.7	5	4.8	
Total Deaths	6	100	19	100	9	100	30	100	104	100	

Table 56: Manner of child (under age 18) violent death in North Carolinaby age group, 2021

Table 57: Method of child (under age 18) violent death in North Carolina by sex, 2021

	Ма	le	Fem	ale	Total	
	Number	%	Number %		Number	%
Method of Death*						
Firearm	96	78.1	22	48.9	118	70.2
Hanging, strangulation, suffocation	12	9.8	9	20.0	21	12.5
Personal weapons	5	4.1	3	6.7	8	4.8
Poisoning	3	2.4	4	8.9	7	4.2
Sharp instrument	0	0.0	2	4.4	2	1.2
Blunt instrument	5	4.1	1	2.2	6	3.6
Intentional neglect	0	0.0	1	2.2	1	0.6
Other/unknown	2	1.6	3	6.7	5	3.0
Total Deaths	123	100	45	100	168	100

* Only the first method is included in this table. Two children had multiple methods of death.

Section VI

	White	**	Black**		American Indian**		Asian**		Hispanic	
	Number	%	Number	%	Number	%	Number	%	Number	%
Method of Death*										
Firearm	31	58.5	68	79.1	1	50.0	2	66.7	16	66.7
Hanging, strangulation, suffocation	13	24.5	3	3.5	0	0.0	1	33.3	4	16.7
Personal weapons	2	3.8	5	5.8	0	0.0	0	0.0	1	4.2
Poisoning	3	5.7	3	3.5	1	50.0	0	0.0	0	0.0
Sharp instrument	1	1.9	0	0.0	0	0.0	0	0.0	1	4.2
Blunt instrument	0	0.0	5	5.8	0	0.0	0	0.0	1	4.2
Intentional neglect	0	0.0	0	0.0	0	0.0	0	0.0	1	4.2
Other/unknown	3	5.7	2	2.3	0	0.0	0	0.0	0	0.0
Total Deaths	53	100	86	100	2	100	3	100	24	100

Table 58: Method of child (under age 18) violent death in North Carolina by race/ethnicity, 2021

* Only the first method is included in this table. Two children had multiple methods of death.

** Non-Hispanic

Table 59: Method of child (under age 18) violent death in North Carolina by age group, 2021

	•		•							
	<1		1-4		5-9	5-9 10-14			15-17	
	Number	%	Number	%	Number	%	Number	%	Number	%
Method of Death										
Firearm	0	0.0	7	36.8	6	66.7	20	66.7	85	81.7
Hanging, strangulation, suffocation	0	0.0	1	5.3	0	0.0	10	33.3	10	9.6
Personal weapons	3	50.0	4	21.1	0	0.0	0	0.0	1	1.0
Poisoning	1	16.7	2	10.5	0	0.0	0	0.0	4	3.9
Sharp instrument	0	0.0	0	0.0	1	11.1	0	0.0	1	1.0
Blunt instrument	0	0.0	4	21.1	2	22.2	0	0.0	0	0.0
Intentional neglect	1	16.7	0	0.0	0	0.0	0	0.0	0	0.0
Other/unknown	1	16.7	1	5.3	0	0.0	0	0.0	3	2.9
Total Deaths	6	100	19	100	9	100	30	100	104	100

* Only the first method is included in this table. Two children had multiple methods of death.

** Non-Hispanic

Section VII: Undetermined Intent

The NC-VDRS defines an undetermined intent death as a death with some evidence of intent but without enough information to definitively classify the death as purposeful. **Table 60** provides the characteristics of undetermined intent deaths in North Carolina in 2021 by sex, race/ethnicity, and age.

Key Findings:

- In 2021, 111 undetermined intent deaths (1.1 per 100,000) were reported in North Carolina.
- Males and females had undetermined death rates of 1.1 per 100,000 and 1.0 per 100,000, respectively.
- NH whites accounted for 79.3% of undetermined intent victims.
- Among victims whose death was of undetermined intent, one-quarter of deaths were among those ages 35 to 44 (25.2%); the highest undetermined intent death rate by age group was among those ages 35 to 44 years (2.1 per 100,000).

Table 61 summarizes the method of undetermined intent deaths in North Carolina in 2021.Table 62 shows the category of the fatal substance that caused the undetermined intent poisoning deaths in North Carolina in 2021.

Key Findings:

- The leading methods of undetermined intent deaths were poisoning (64.0%), firearm (8.1%), and blunt instrument (8.1%).
- Most undetermined intent poisoning deaths involved an opiate (either illicit or prescription) (56.3%), anticonvulsants (23.9%), or benzodiazepines (22.5%).
- A handgun was involved in seven of the nine undetermined intent firearm deaths that occurred in North Carolina in 2021.
- Multiple firearm types were reported for no undetermined intent fatalities in 2021. Therefore, the total number of firearms is equal to the number of undetermined intent firearm deaths.

 Table 63 provides the number of undetermined intent deaths in 2021 by North Carolina County of residence.

Section VII

	Number	%	Rate	95% Cl
Sex				
Female	56	50.5	1.0	0.8 - 1.3
Male	55	79.3	1.1	0.8 - 1.3
Race/Ethnicity				
White**	88	79.3	1.3	1.1 - 1.6
Black**	18	16.2	0.8	0.4 - 1.2
Asian**	1	0.9	0.0	-
American Indian**	2	1.8	*	*
Hispanic	2	1.8	*	*
Other/unknown	0	0.0	-	-
Age Group (Years)				
< 1	2	1.8	*	*
1-4	2	1.8	*	*
5-9	0	0.0	0.0	-
10-14	1	0.9	*	*
15-19	2	1.8	*	*
20-24	6	5.4	0.8	0.2 - 1.5
25-34	24	21.6	1.7	1.0 - 2.4
35-44	28	25.2	2.1	1.3 - 2.9
45-54	18	16.2	1.3	0.7 - 2.0
55-64	14	12.6	1.0	0.5 - 1.6
65-74	8	7.2	0.7	0.2 - 1.2
75-84	6	5.4	1.1	1.1 - 1.1
≥85	0	0.0	0.0	-
Total Deaths	111	100	1.1	0.9 - 1.2

Table 60: Demographics of undetermined intent death victims in North Carolina, 2021

Sex, race/ethnicity, and age-specific crude rates per 100,000 NC population

95% CI = 95 % confidence interval for the rate

** Non-Hispanic

Note: The number of deaths was too small to support a rate calculation for NH American Indians, Hispanics, for infants less than one, and for ages 1-4, 10-14, and 15-19.

	Number	%
Method of Death		
Poisoning	71	64.0
Firearm	9	8.1
Blunt instrument	9	8.1
Motor vehicle including buses, motorcycles	5	4.5
Fire or burns	4	3.6
Hanging, strangulation, suffocation	4	3.6
Fall	3	2.7
Personal weapons	1	0.9
Shaking, e.g., shaken baby syndrome	1	0.9
Drowning	1	0.9
Intentional neglect (e.g., starving a baby)	1	0.9
Sharp instrument	1	0.9
Other/unknown	1	0.9
Total Deaths	111	100.0

Table 61: Method of undetermined intent deaths in North Carolina, 2021

Table 62: Fatal substances in undetermined intent poisoning deaths in North Carolina by sex, 2021

	Male		Female		Total	
	Number	%	Number	%	Number	%
Category of Fatal Substance*						
Opiate**	19	63.3	21	51.2	40	56.3
Anticonvulsants	4	13.33	13	31.71	17	23.9
Antidepressant	2	6.7	5	12.2	7	9.9
Benzodiazepines	3	10.0	13	31.7	16	22.5
Alcohol	3	10.0	3	7.3	6	8.5
Amphetamine	4	13.3	11	26.8	15	21.1
Cocaine	0	0.0	3	7.3	3	4.2
Muscle Relaxant	0	0	1	2.44	1	1.41
Other Poison***	4	13.3	10	24.4	14	19.7

* Category of substance that directly caused or was suspected to cause undetermined intent poisoning deaths. There were 36 undetermined intent poisonings (87.3%) where more than one substance caused the death in 2021, with as many as five fatal substances present in a given case.

** Opiate includes both prescription opioids and illicit substances, such as heroin

*** Other poison includes substances that did not fall into any of the summary categories

Section VII

County	Number	County	Number	County	Number
Alamance	3	Edgecombe	3	Person	3
Alexander	2	Forsyth	1	Pitt	5
Bertie	1	Franklin	2	Randolph	2
Bladen	2	Gaston	3	Richmond	2
Brunswick	5	Guilford	8	Robeson	3
Buncombe	3	Harnett	2	Rowan	2
Burke	2	Haywood	1	Sampson	1
Cabarrus	1	Henderson	2	Stanly	1
Caldwell	1	Iredell	3	Stokes	1
Carteret	2	Mecklenburg	4	Surry	2
Catawba	1	Nash	3	Union	1
Cleveland	2	New Hanover	5	Wake	3
Craven	1	Onslow	5	Wayne	1
Cumberland	5	Orange	2	Wilson	2
Davidson	2	Pamlico	1	Yadkin	1
Durham	2	Pasquotank	1		

Table 63: Undetermined intent deaths in North Carolina by county of residence, 2021

Section VIII: Violent Death Trend Over Time

Table 64 shows the number and the rate of violent deaths over time in North Carolina from 2012 to 2021, including overall violent deaths, suicides for people ages 10 or older, and homicides. **Figure 33** plots the overall violent death, suicide, and homicide rates in North Carolina from 2012 to 2021.

Key Findings:

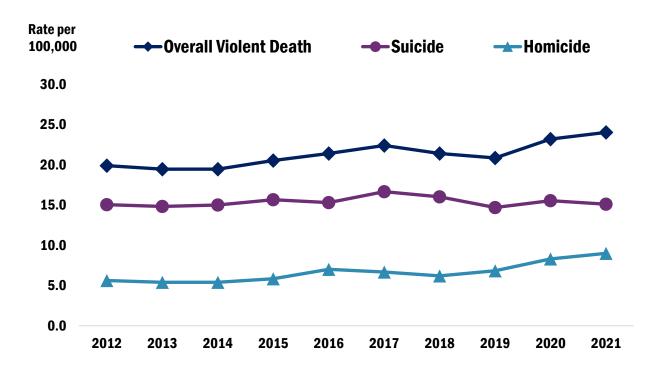
- The overall violent death rate in North Carolina has steadily increased from 2012 (19.9 per 100,000) to 2021 (24.0 per 100,000).
- From 2012 to 2021 in North Carolina, the death rates have remained steady for suicides (range of 15.0 to 15.1 per 100,000 by year) and slightly increased for homicides (range of 5.6 to 9.0 per 100,000 by year).

	Overall Violent Deaths		Suicides (A	Suicides (Ages ≥10)		cides
	Number	Rate	Number	Rate	Number	Rate
Year						
2012	1,938	19.9	1,277	15.0	547	5.6
2013	1,915	19.5	1,273	14.8	531	5.4
2014	1,932	19.5	1,303	15.0	536	5.4
2015	2,058	20.5	1,375	15.6	586	5.8
2016	2,173	21.4	1,362	15.3	712	7.0
2017	2,298	22.4	1,503	16.7	685	6.7
2018	2,222	21.4	1,463	16.0	643	6.2
2019	2,186	20.8	1,358	14.7	716	6.8
2020	2,423	23.2	1,436	15.5	867	8.3
2021	2,537	24.0	1,412	15.1	950	9.0

Table 64: Trends of violent deaths over time in North Carolina, 2012-2021

Section VIII

Figure 33: Violent death rate trend data for most recent 10 years in North Carolina, 2012 – 2021



Appendix A:	Population	Data for	Rate	Calculations
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	Total Population	Population Ages 10 or Older (for Suicide Rates)	Child Population (<18 Years of Age)
Sex			
Female	5,387,543	4,796,404	1,116,496
Male	5,178,342	4,562,759	1,165,115
Race/Ethnicity			
White*	6,544,996	5,945,961	1,156,226
Black*	2,244,089	1,976,681	510,177
Asian*	359,006	310,462	86,220
American Indian*	110,168	97,404	24,310
Hispanic	1,039,411	833,132	378,291
Age Group (Years)			
< 1	116,056	-	116,056
1-4	471,814	-	471,814
5-9	618,852	-	618,852
10-14	668,060	668,060	668,060
15-17	406,829	406,829	406,829
15-19	703,310	703,310	-
20-24	734,847	734,847	-
25-34	1,414,144	1,414,144	-
35-44	1,329,957	1,329,957	-
45-54	1,345,466	1,345,466	-
55-64	1,364,066	1,364,066	-
65-74	1,090,866	1,090,866	-
75-84	523,190	523,190	-
≥85	185,257	185,257	-
Total Population	10,565,885	9,359,163	2,281,611

Appendix A: North Carolina 2021 population data by sex, race/ethnicity, and age group

* Non-Hispanic

Appendix B: Advisory Board

The list of advisory board members below represents the membership and their positions during the year of this report and during the data collection close-out period (2021).

NC-VDRS Advisory Board

Steering Committee:

Stephen Marshall, PhD Professor, Department of Epidemiology, UNC-CH Director, Injury Prevention Research Center, UNC-CH

Anna E. Waller, ScD

Research Professor, Department of Emergency Medicine, *Director*, Carolina Center for Health Informatics, and *Adjunct Faculty*, Department of Health Behavior, UNC-CH

Advisory Board Members

Patrice Andrews Chief of Police, Durham Police Department

Michelle Aurelius N.C. Chief Medical Examiner, N.C. Office of Chief Medical Examiner

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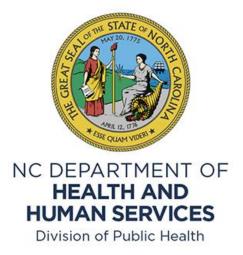
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Appendix C: Glossary

Adult	Person was 18 years of age or older on date of death.
Child	Person was younger than 18 years of age on date of death.
Homicide	A death resulting from the intentional use of force or power, threatened or actual, against another person, group, or community.
Legal intervention	Decedent was killed by a police officer, military police officer or other peace officer acting in the line of duty. In North Carolina, legal intervention includes legal executions.
NVDRS	National Violent Death Reporting System
NC-VDRS	North Carolina Violent Death Reporting System
Occurrent death	Death occurred in North Carolina during the specified time frame. Decedent may or may not have been a resident at the time of death.
Peace officer	Person with specified legal authority to use deadly force.
Rates	Calculated as number of deaths x 100,000/population.
Resident death	Victim was a North Carolina resident at the time of death and the death occurred in North Carolina. All deaths reported in this report are resident deaths.
Suicide	A death resulting from the intentional use of force against oneself. Suicides are classified among violent deaths only for people age 10 or older.
Unintentional firearm	A death resulting from a penetrating injury or gunshot wound from a weapon that uses a powder charge to fire a projectile and from a shooting that was not directed intentionally at the decedent.

- Undetermined intent A death resulting from the use of force or power against oneself or another person for which the evidence indicating the manner of death was not sufficient to determine intent.
- Violent death Intentional use of physical force or power against oneself, another person, or against a group or community. Intentional deaths meeting this definition include suicides, homicides, and legal interventions.



State of North Carolina • Roy Cooper, Governor Department of Health and Human Services • Kody Kinsley, Secretary Division of Public Health • Elizabeth Cuervo Tilson, M.D., MPH, State Health Director Injury and Violence Prevention Branch

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North Carolina Division of Public Health

Violent Death Reporting System 2021 Annual Report

June 2024