

| 2017 | Injuries Data Brief



Highlights

- Since 2006, deaths due to motor vehicle crashes declined until 2011 but have since increased.
- Though all age groups are impacted, adults ages 20-29 and 40-49 are at greatest risk for motor vehicle injury deaths.
- Deaths due to non-motor vehicle injuries have increased in Guilford County and the state as a whole over the last 20 years.
- Non-motor vehicle injury mortality heavily impacts those over the age of 80.
- In 2015, the overall leading cause of injury mortality was deaths due to falls, followed by suicide, unintentional poisoning, suicide and motor vehicle injury deaths.
- Homicide deaths declined in Guilford County from 12.4 per 100,000 in 1995 to 5.9 per 100,000 in 2015. Those most at risk of homicide are young adults.
- Suicide deaths increased sharply in 2015, from 43 deaths in 2014 to 71 deaths in 2015
- Suicide affects a wide range of age groups, from teenagers to the elderly, but with young and middle-aged adults at greatest risk.
- Poisoning deaths are due primarily to adverse reactions to prescription and non-prescription use of opioid drugs.
- Firearms were used in the majority of both suicide and homicide deaths.

Inside this Data Brief

Leading Causes of Injury Mortality	2
Leading Causes of Injury Mortality among Females	3
Leading Causes of Injury Mortality among Males	4
Leading Causes of Injury Mortality among African-Americans	5
Leading Causes of Injury Mortality among Whites	6
Age-Adjusted Injury Mortality Rates	7
Trends in Motor Vehicle Injury Mortality	8
Trends in Unintentional Injury Mortality	9
Trends in Homicide Mortality	10
Trends in Suicide Mortality	11
Detailed Causes of Non-Motor Vehicle Mortality	12

**Leading Causes of Injury Mortality and Rates per 100,000
All Residents, Guilford County, 2009-2015**

Leading Causes of Injury Mortality, Guilford County 2009-2015

Injury Type	2009	2010	2011	2012	2013	2014	2015
Motor Vehicle Injury	46	61	41	43	47	53	53
Unintentional Falls	91	74	77	70	83	74	77
Suicide and Self-Inflicted Injury	48	42	49	59	52	43	71
Homicide and Injury Purposely Inflicted on Other Persons	24	27	34	32	33	28	39
Unintentional Poisoning	38	33	44	50	37	51	62
Unintentional Death by Fire	6	5	4	3	5	4	1

Rate per 100,000

Injury Type	2009	2010	2011	2012	2013	2014	2015
Motor Vehicle Injury	9.7	12.5	8.3	8.6	9.2	10.3	10.2
Unintentional Falls	19.1	15.2	15.5	14.0	16.4	14.4	14.9
Suicide and Self-Inflicted Injury	10.1	8.6	9.9	11.8	10.3	8.4	13.7
Homicide and Injury Purposely Inflicted on Other Persons	5.0	5.5	6.9	6.4	6.5	5.5	7.5
Unintentional Poisoning	8.0	6.8	8.9	10.0	7.3	10.0	12.0
Unintentional Death by Fire	1.3	1.0	0.8	0.6	1.0	0.8	0.2
Population	476,038	488,406	495,231	501,058	506,610	512,119	517600

Source: North Carolina Department of Health and Human Services, Division of Public Health. State Center for Health Statistics.

Leading Causes of Injury Mortality and Rates per 100,000 Female Residents, Guilford County, 2009-2015

Leading Causes of Injury Mortality, Guilford County 2009-2015

Injury Type	2009	2010	2011	2012	2013	2014	2015
Motor Vehicle Injury	15	14	10	8	9	8	14
Unintentional Falls	48	36	41	30	46	44	47
Suicide and Self-Inflicted Injury	16	12	18	18	18	11	15
Homicide and Injury Purposely Inflicted on Other Persons	11	2	7	9	8	8	7
Unintentional Poisoning	17	13	16	11	9	17	17
Unintentional Death by Fire	3	5	1	2	1	1	1

Rate per 100,000

Injury Type	2009	2010	2011	2012	2013	2014	2015
Motor Vehicle Injury	6.0	5.5	3.9	3.0	3.4	3.0	5.2
Unintentional Falls	19.2	14.1	15.8	11.4	17.2	16.4	17.3
Suicide and Self-Inflicted Injury	6.4	4.7	6.9	6.8	6.7	4.1	5.5
Homicide and Injury Purposely Inflicted on Other Persons	4.4	0.8	2.7	3.4	3.0	3.0	2.6
Unintentional Poisoning	6.8	5.1	6.2	4.2	3.4	6.3	6.3
Unintentional Death by Fire	1.2	2.0	0.4	0.4	0.4	0.4	0.4
Population	249,688	255,923	259,659	263,608	267,293	268,635	271,543

Source: North Carolina Department of Health and Human Services, Division of Public Health. State Center for Health Statistics.

Leading Causes of Injury Mortality and Rates per 100,000 Male Residents, Guilford County, 2009-2015

Leading Causes of Injury Mortality, Guilford County 2009-2015

Injury Type	2009	2010	2011	2012	2013	2014	2015
Motor Vehicle Injury	31	47	31	35	38	45	39
Unintentional Falls	43	38	36	40	37	30	30
Suicide and Self-Inflicted Injury	37	30	31	41	34	32	56
Homicide and Injury Purposely Inflicted on Other Persons	28	25	27	23	25	20	32
Unintentional Poisoning	21	20	28	39	28	34	45
Unintentional Death by Fire	3	0	3	1	4	3	0

Rate per 100,000

Injury Type	2009	2010	2011	2012	2013	2014	2015
Motor Vehicle Injury	13.4	20.2	13.2	14.7	15.8	18.5	15.8
Unintentional Falls	18.6	16.3	15.3	16.8	15.4	12.3	12.2
Suicide and Self-Inflicted Injury	16.0	12.9	13.2	17.3	14.2	13.2	22.7
Homicide and Injury Purposely Inflicted on Other Persons	12.1	10.8	11.5	9.7	10.4	8.2	13.2
Unintentional Poisoning	9.1	8.6	11.9	16.4	11.7	14.0	18.3
Unintentional Death by Fire	1.3	0.0	1.3	0.4	1.7	1.2	0.0
Population	230,674	232,483	235,506	237,450	240,126	243,119	246,057

Source: North Carolina Department of Health and Human Services, Division of Public Health. State Center for Health Statistics.

**Leading Causes of Injury Mortality and Rates per 100,000
Black/African-American Residents, Guilford County, 2010-2015***

Leading Causes of Injury Mortality, Guilford County 2009-2015

Injury Type	2011	2012	2013	2014	2015
Motor Vehicle Accident	15	11	20	17	18
Unintentional Falls	8	9	12	10	9
Suicide and Self-Inflicted Injury	6	4	13	8	5
Homicide and Injury Purposely Inflicted on Other Persons	20	23	19	21	29
Unintentional Poisoning	8	11	10	9	11
Unintentional Death by Fire	1	1	0	1	0

Rate per 100,000

Injury Type	2011	2012	2013	2014	2015
Motor Vehicle Accident	9.1	6.6	11.7	9.5	9.9
Unintentional Falls	4.8	5.4	7.0	5.6	4.9
Suicide and Self-Inflicted Injury	3.6	2.4	7.6	4.5	2.7
Homicide and Injury Purposely Inflicted on Other Persons	12.1	13.7	11.2	11.7	15.9
Unintentional Poisoning	4.8	6.6	5.9	5.0	6.0
Unintentional Death by Fire	0.6	0.6	0.0	0.6	0.0
Population	165,072	167,488	170,260	179,332	182,548

*Note: Detailed injury mortality data for Black/African American residents became available beginning in 2011.

Source: North Carolina Department of Health and Human Services, Division of Public Health. State Center for Health Statistics.

Leading Causes of Injury Mortality and Rates per 100,000 White Residents, Guilford County, 2009-2015

Leading Causes of Injury Mortality, Guilford County 2009-2015

Injury Type	2009	2010	2011	2012	2013	2014	2015
Motor Vehicle Accident	29	35	24	31	26	29	32
Unintentional Falls	77	65	68	61	70	63	66
Suicide and Self-Inflicted Injury	47	35	43	52	38	34	62
Homicide and Injury Purposely Inflicted on Other Persons	4	14	12	9	12	5	6
Unintentional Poisoning	30	30	36	39	26	40	46
Unintentional Death by Fire	3	3	2	2	5	2	1

Rate per 100,000

Injury Type	2009	2010	2011	2012	2013	2014	2015
Motor Vehicle Accident	9.7	12.2	8.2	10.4	8.7	9.5	10.5
Unintentional Falls	25.8	22.6	23.2	20.5	23.4	20.7	21.7
Suicide and Self-Inflicted Injury	15.7	12.2	14.6	17.5	12.7	11.2	20.4
Homicide and Injury Purposely Inflicted on Other Persons	1.3	4.9	4.1	3.0	4.0	1.6	2.0
Unintentional Poisoning	10.0	10.5	12.3	13.1	8.7	13.2	15.1
Unintentional Death by Fire	1.0	1.0	0.7	0.7	1.7	0.7	0.3
Population	298,775	287,040	293,599	296,910	298,914	303,718	304,661

Source: North Carolina Department of Health and Human Services, Division of Public Health. State Center for Health Statistics.

Injury Mortality, Age-Adjusted

2011-2015 Guilford County Race/Ethnicity-Specific and Sex-Specific Age-Adjusted* Death Rates**

Cause of Death:	White, non-Hispanic		African American, non-Hispanic		American Indian, non-Hispanic		Hispanic		Male		Female		Overall	
	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate
Unintentional Motor Vehicle Injuries	134	9.2	81	9.4	0	N/A	14	N/A	188	15.6	49	3.5	237	9.1
All Other Unintentional Injuries	634	37.5	158	23.0	7	N/A	12	N/A	438	39.3	382	24.5	820	31.0
Suicide	226	15.5	36	4.2	2	N/A	4	N/A	194	15.9	80	5.7	274	10.5
Homicide	40	3.2	112	12.2	1	N/A	7	N/A	127	10.4	39	3.0	166	6.6

Standard = Year 2000 U.S. Population; **Rates Per 100,000 Population.

2011-2015 NC Resident Race/Ethnicity-Specific and Sex-Specific Age-Adjusted* Death Rates**

Cause of Death:	White, non-Hispanic				African American, non-Hispanic				Hispanic				Overall	
	Male		Female		Male		Female		Male		Female		Overall	
	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate	Deaths	Rate
Unintentional Motor Vehicle Injuries	104	15.2	30	3.7	63	16.9	18	N/A	13	N/A	1	N/A	237	9.1
All Other Unintentional Injuries	331	46.4	303	30.0	89	31.9	69	17.1	8	N/A	4	N/A	820	31.0
Suicide	158	22.9	68	8.6	27	7.3	9	N/A	3	N/A	1	N/A	274	10.5
Homicide	28	4.4	12	N/A	89	21.1	23	5.0	6	N/A	1	N/A	166	6.6
Alzheimer's disease	214	27.3	556	39.6	45	28.8	130	39.0	1	N/A	7	N/A	959	35.0
Acquired Immune Deficiency Syndrome	12	N/A	2	N/A	43	11.6	13	N/A	1	N/A	0	N/A	71	2.6

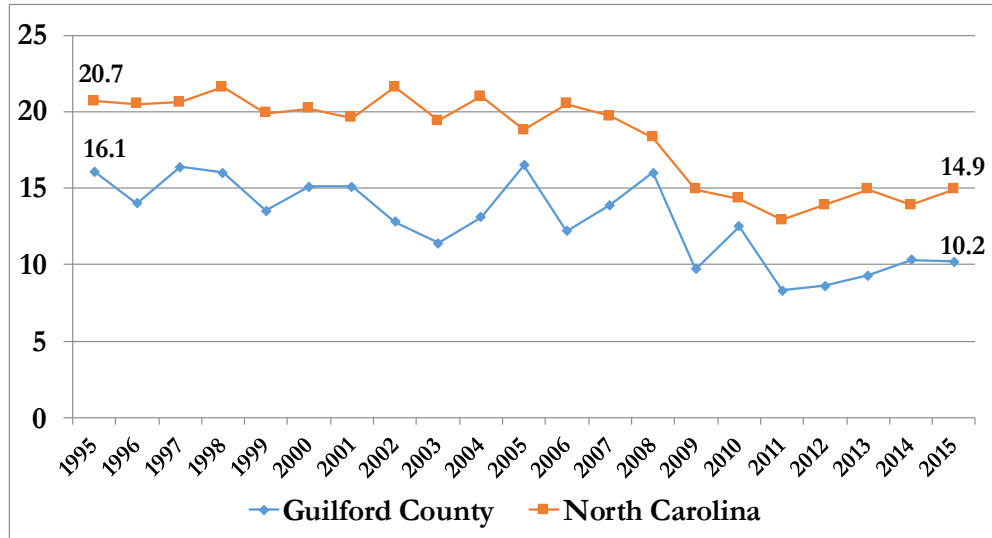
* Standard = Year 2000 U.S. Population; **Rates Per 100,000 Population.

Source: NC State Center for Health Statistics, County Health Databook.

Technical Note: Rates based on fewer than 20 cases (indicated by "N/A") are unreliable and have been suppressed.

Motor Vehicle Injury Mortality, Guilford County and NC, 1995-2015

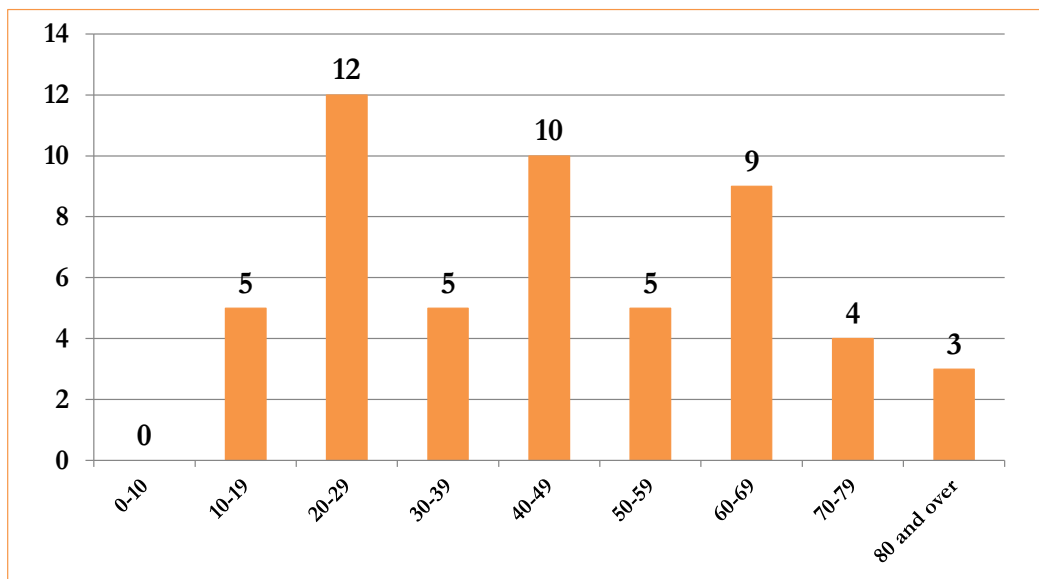
Rate per 100,000



Source: Data provided by the NC Center for Health Statistics.
Chart prepared by the GCDHHS, Division of Public Health.

Motor Vehicle Crash Deaths by Age Group Guilford County, 2015

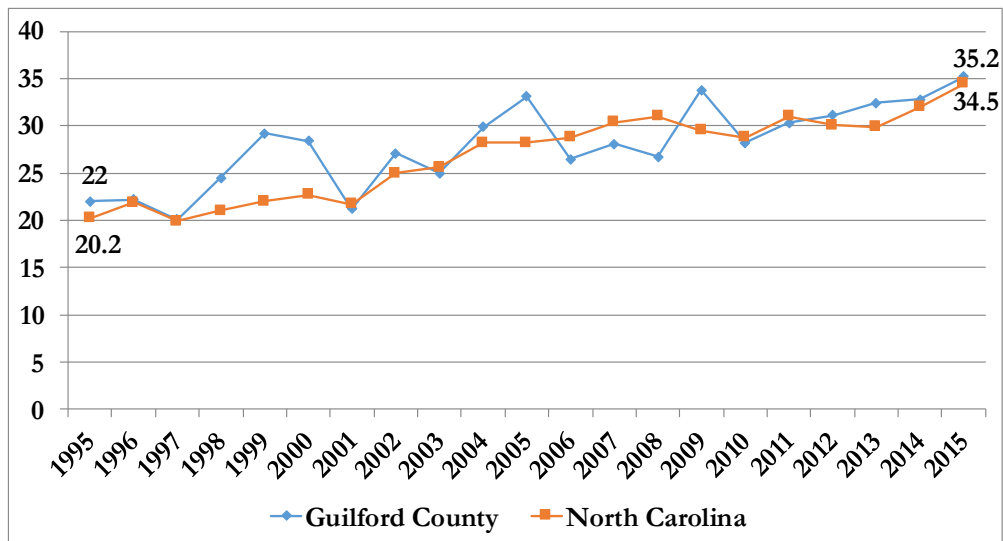
Number of Deaths



Source: Data provided by the NC Center for Health Statistics.
Chart prepared by the GCDHHS, Division of Public Health.

Mortality Due to Unintentional Injury other than Motor Vehicle Injury, 1995-2015

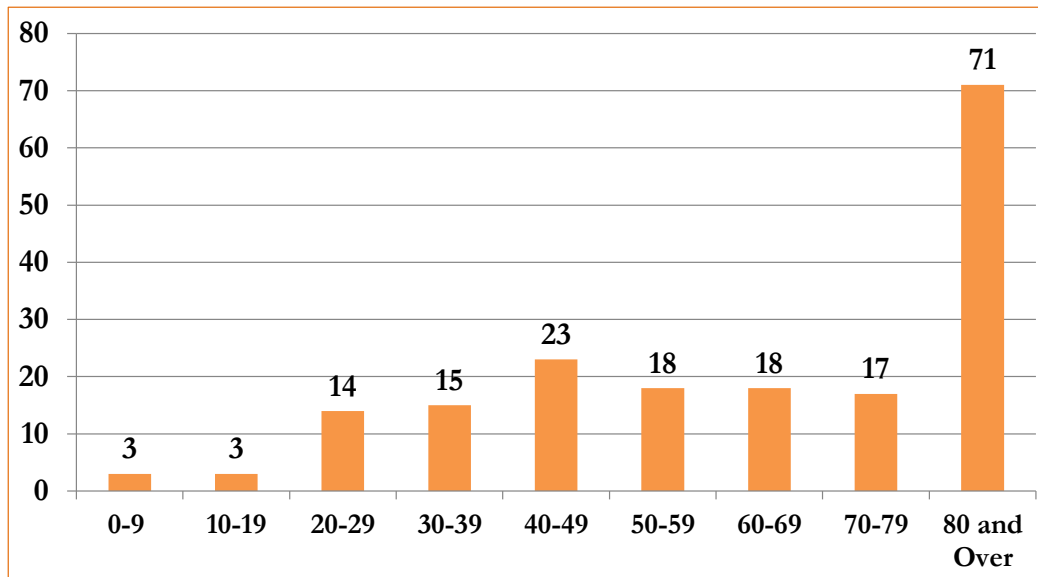
Rate per 100,000



Source: Data provided by the NC Center for Health Statistics.
Chart prepared by the GCDHHS, Division of Public Health.

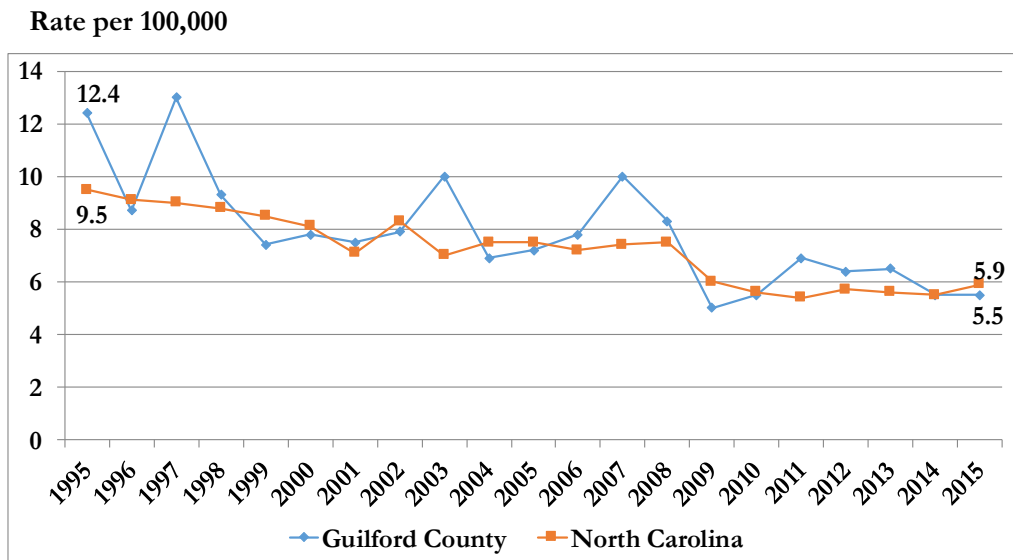
Non-Motor Vehicle Injury Deaths by Age Group Guilford County, 2015

Number of Deaths



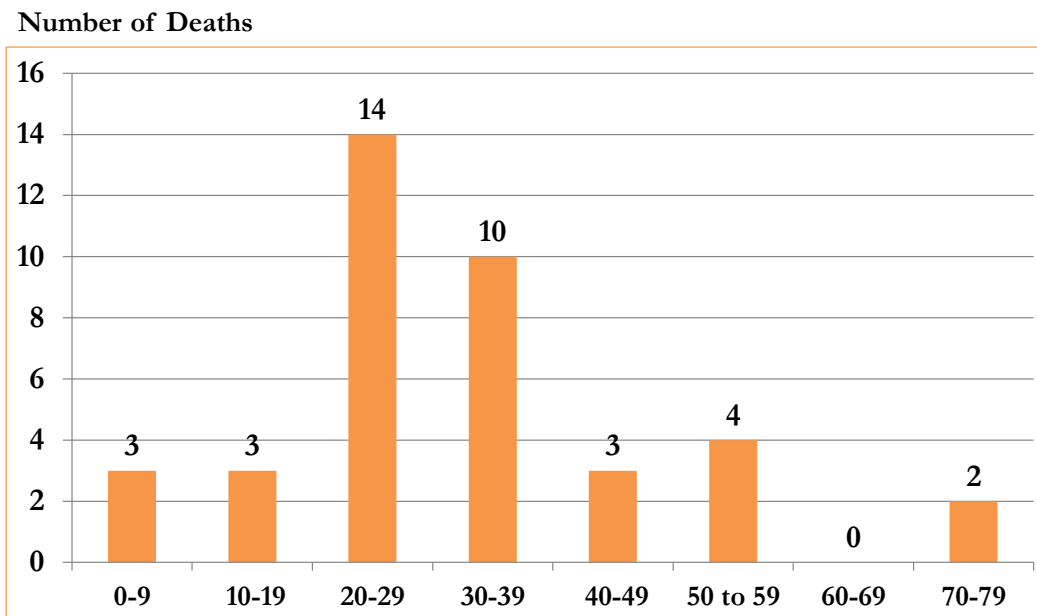
Source: Data provided by the NC Center for Health Statistics.
Chart prepared by the GCDHHS, Division of Public Health.

Homicide Mortality, Guilford County and NC, 1995-2015



Source: Data provided by the NC Center for Health Statistics.
Chart prepared by the GCDHHS, Division of Public Health.

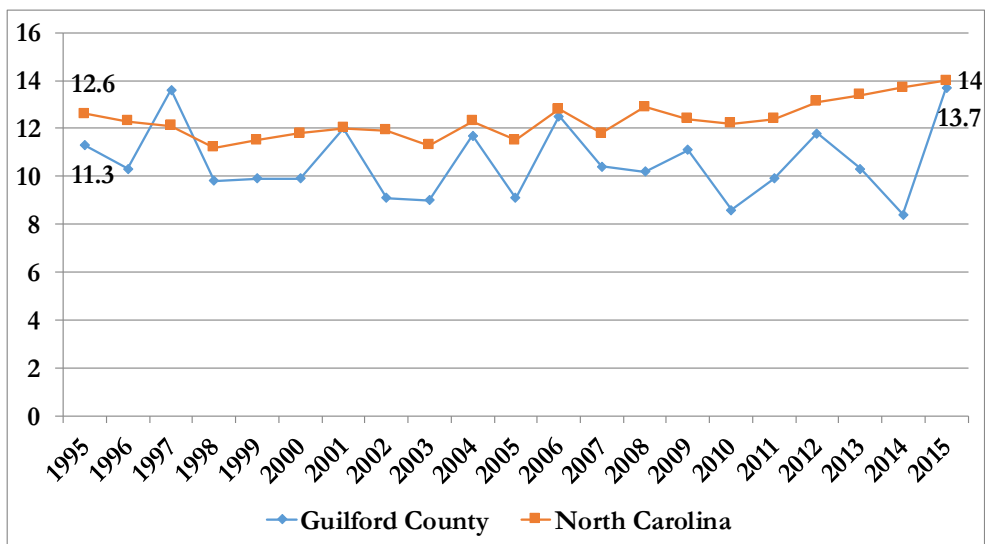
Homicide Deaths by Age Group Guilford County, 2015



Source: Data provided by the NC Center for Health Statistics.
Chart prepared by the GCDHHS, Division of Public Health.

Suicide Mortality, Guilford County and NC, 1995-2015

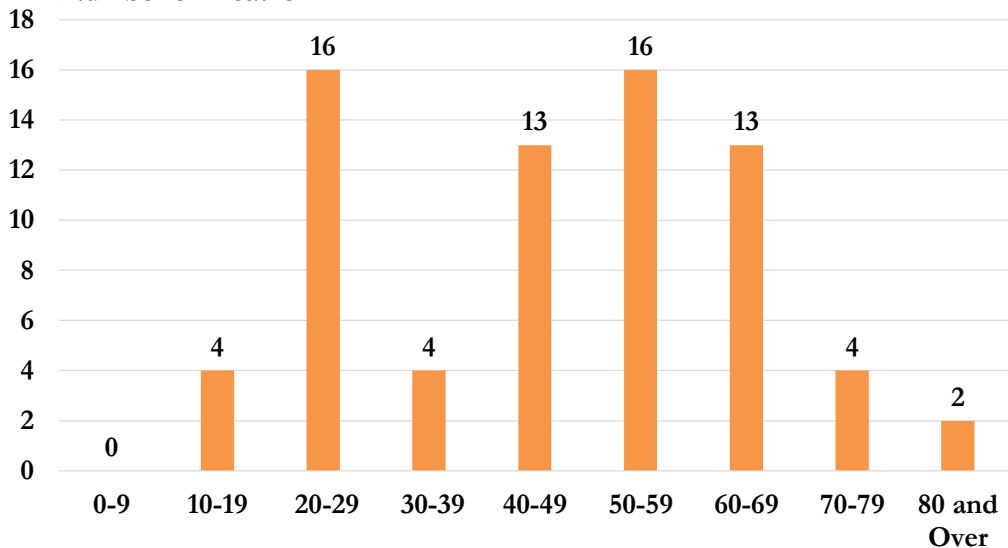
Rate per 100,000



Source: Data provided by the NC Center for Health Statistics.
Chart prepared by the GCDHHS, Division of Public Health.

Suicide Deaths by Age Group Guilford County, 2015

Number of Deaths



Source: Data provided by the NC Center for Health Statistics.
Chart prepared by the GCDHHS, Division of Public Health.

Detailed Causes of Non-Motor Vehicle Injury Mortality, 2015

Deaths due to Unintentional Poisoning, 2015		
ICD-10 Cause of Death Codes	Cause of Death Description	Number of Deaths
X40-X49	Accidental poisoning by and exposure to noxious substances	62
X41	Accidental poisoning by & exposure to antiepileptic, sedative-hypnotic, antiparkinsonism & psychotropic drugs	1
X42	Accidental poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], NEC	33
X44	Accidental poisoning by and exposure to other and unspecified drugs, medicaments & biological substances	21
X45	Accidental poisoning by and exposure to alcohol	6
X47	Accidental poisoning by and exposure to other gases and vapours	1
Deaths due to Suicide, 2015		
X60-X84	Intentional self-harm	71
X61	Intentional self-poisoning by & exposure to antiepileptic, sedative-hypnotic, antiparkinsonism and psychotropic drugs	1
X62	Intentional self-poisoning by and exposure to narcotics and psychodysleptics [hallucinogens], not elsewhere classified	1
X64	Intentional self-poisoning by and exposure to other & unspecified drugs, medicaments and biological substances	5
X66	Intentional self-poisoning by and exposure to organic solvents and halogenated hydrocarbons and their vapours	1
X67	Intentional self-poisoning by and exposure to other gases and vapors	1
X70	Intentional self-harm by hanging, strangulation and suffocation	17
X72	Intentional self-harm by handgun discharge	14
X73	Intentional self-harm by rifle, shotgun and larger	11
X74	Intentional self-harm by other and unspecified firearm and gun discharge	14
X76	Intentional self-harm by smoke, fire and flames	1
X78	Intentional self-harm by sharp object	2
X80	Intentional self-harm by jumping from a high place	2
X83	Intentional self-harm by other specified means	1
Deaths due to Homicide, 2015		
X85-Y09	Assault	38
X91	Assault by hanging, strangulation and suffocation	1
X94	Assault by rifle, shotgun and larger firearm discharge	1
X95	Assault by other and unspecified firearm discharge	25
X99	Assault by sharp object	6
Y09	Assault by unspecified means	5

Source: Detailed Mortality Statistics, North Carolina Residents, 2014, NC State Center for Health Statistics.

This report was prepared by Health Surveillance & Analysis Unit of the Division of Public Health:

Mark H. Smith, Ph.D, Epidemiologist

Laura Mrosła, MPH, MSW, Community Health Educator

For more information about Guilford County health statistics, visit www.myguilford.com/humanservices/health/health-statistics