

NORTH CAROLINA

INJURY ATLAS

2006-2008



North Carolina
Injury & Violence
PREVENTION Branch

INJURY ATLAS

North Carolina

2006-2008

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Injury and Violence Prevention Branch



State of North Carolina
Department of Health and Human Services
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Acknowledgements:

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Table of Contents

Summary.....	4
Section I. Injury Deaths by Intent.....	5
Figure 1. Injury Deaths by County.....	6
Figure 3. Unintentional Injury Deaths by County.....	7
Figure 5. Intentional Injury Deaths by County.....	8
Section II. Intentional Injury Deaths.....	9
Figure 7. Suicides by County.....	10
Figure 9. Homicides by County.....	11
Section III. Leading Mechanisms of Injury Deaths.....	12
Figure 11. Motor Vehicle Crash Deaths by County.....	13
Figure 13. Poisoning Deaths by County.....	14
Figure 15. Firearm Deaths by County.....	15
Figure 17. Fall Deaths by County.....	16
Section IV. Appendices.....	17
Appendix A. ICD-10-CM Coding.....	18
Appendix B. Manner of Death.....	19
Appendix C. Intentional Death.....	24
Appendix D. Mechanism of Death.....	29

Summary: North Carolina Injury Atlas

During the years 2006-2008, injury was the primary cause of death in more than 18,500 fatalities in North Carolina (ICD-10 Codes V01-Y36, Y89, U01-U03). Death due to injury is the third leading cause of death in the state. The majority of injury deaths are due to unintentional injuries (Figure 1).

The purpose of this document is to emphasize the burden injury places on both the state and county level. The comparison of county level data may be used to identify health disparities and make informed public health decisions regarding the allocation of scarce resources.

The North Carolina Injury Atlas is divided into four sections: *Section I. Injury Deaths by Intent*, *Section II. Intentional Injuries*, *Section III. Leading Mechanisms of Injury*, and *Section IV. Appendices*. Each category within the first three sections contains two maps: one map with population adjusted rates by county and one map displaying counties that vary significantly (95% confidence interval) from the overall death rate for the state of N.C. *Section III. Top Five Leading Causes of Injury* includes both unintentional and intentional injuries.

Although population data was pooled for several years in an attempt to generate stable rates, not all counties experienced enough deaths (>20) during 2006-2008 for the calculation of stable and reliable rates. These counties are marked accordingly.

The North Carolina Center for Health Statistics provided all population and death data. Primary cause of death was assigned according to the International Classification, 10th Revision, (ICD-10) codes.

Figure 1. Leading Causes of Death: North Carolina Residents, 2006-2008 (ICD-10)

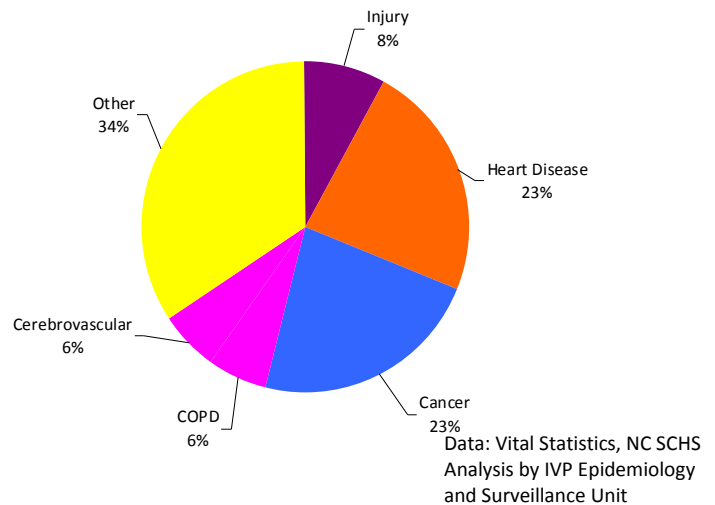
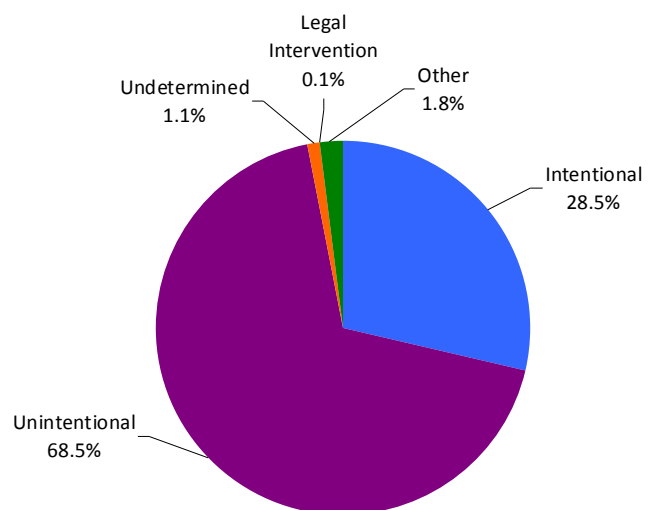


Figure 2. Injury Death by Intent: North Carolina Residents, 2006-2008 (ICD-10 V01-Y36, Y89, U01-U03)

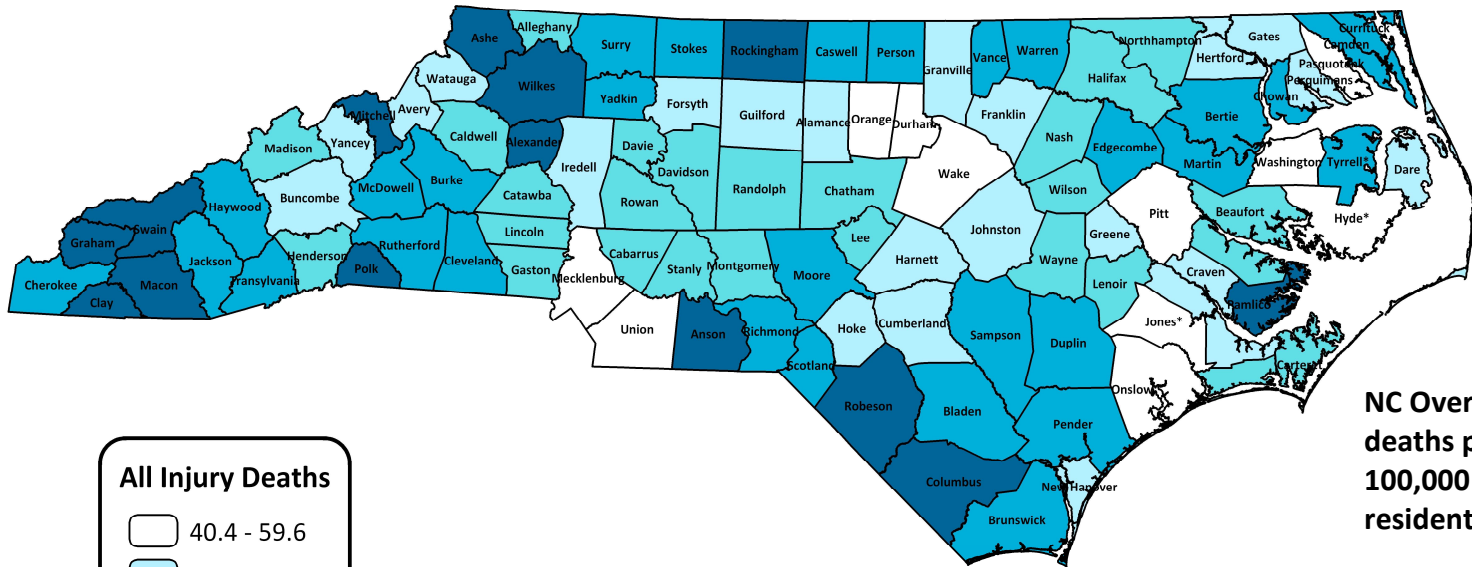


SECTION I.

Injury Deaths by Intent, North Carolina 2006-2008

Manner of Death	Number	Percent	Rate	95% C.I.	
				<i>Lower</i>	<i>Upper</i>
Unintentional	12,681	68.5	46.8	46.0	47.6
Intentional	5,270	28.5	19.4	18.9	19.9
Undetermined	198	1.1	0.7	0.6	0.8
Legal Intervention	19	0.1	0.1	0.1	0.1
Other	335	1.8	1.2	1.1	1.3
Total	18,503	100.0	68.3	67.3	69.3

Injury Deaths per 100,000 North Carolina Residents: 2006-2008



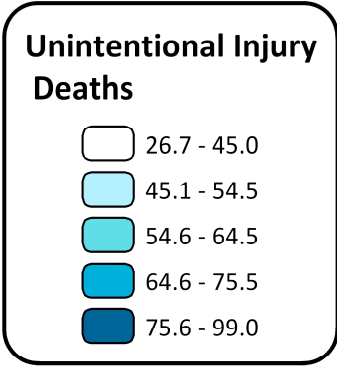
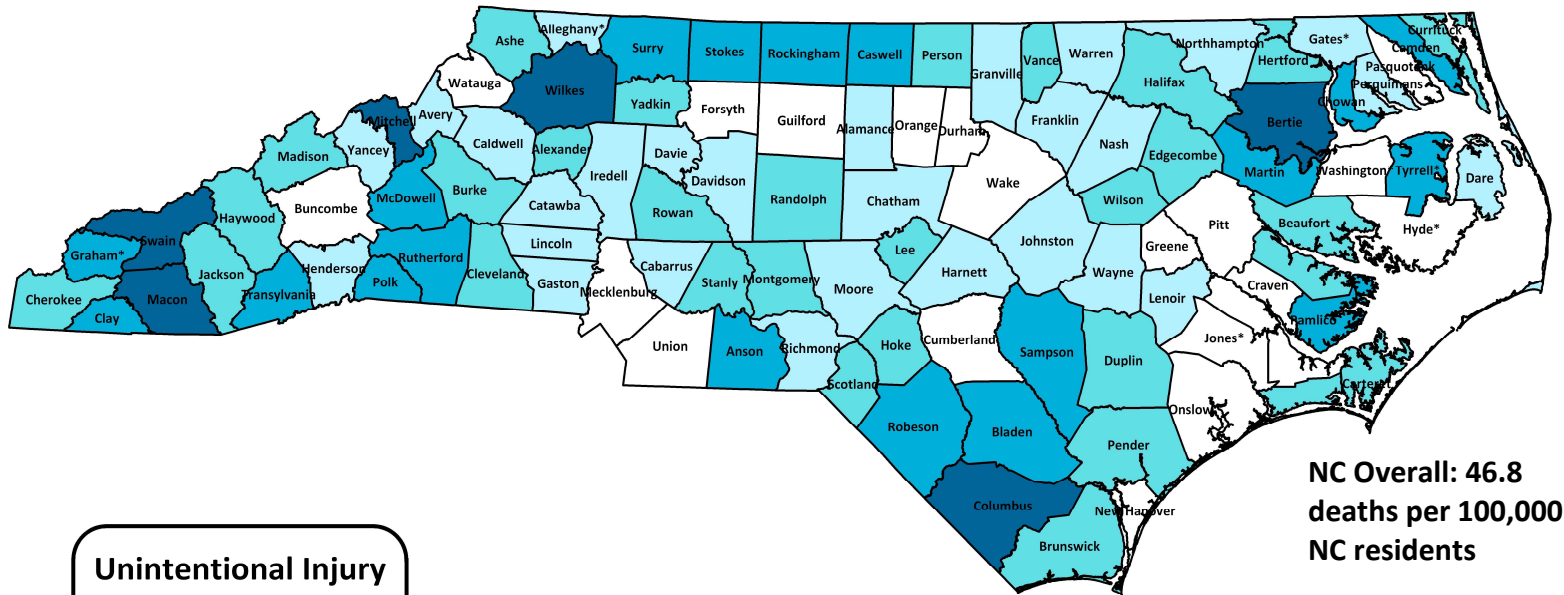
NC Overall: 68.3 deaths per 100,000 NC residents

All Injury Deaths

- 40.4 - 59.6
- 59.7 - 71.8
- 71.9 - 81.8
- 81.9 - 96.1
- 96.2 - 123.8

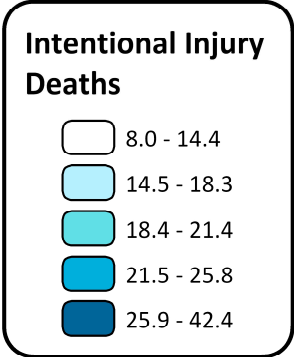
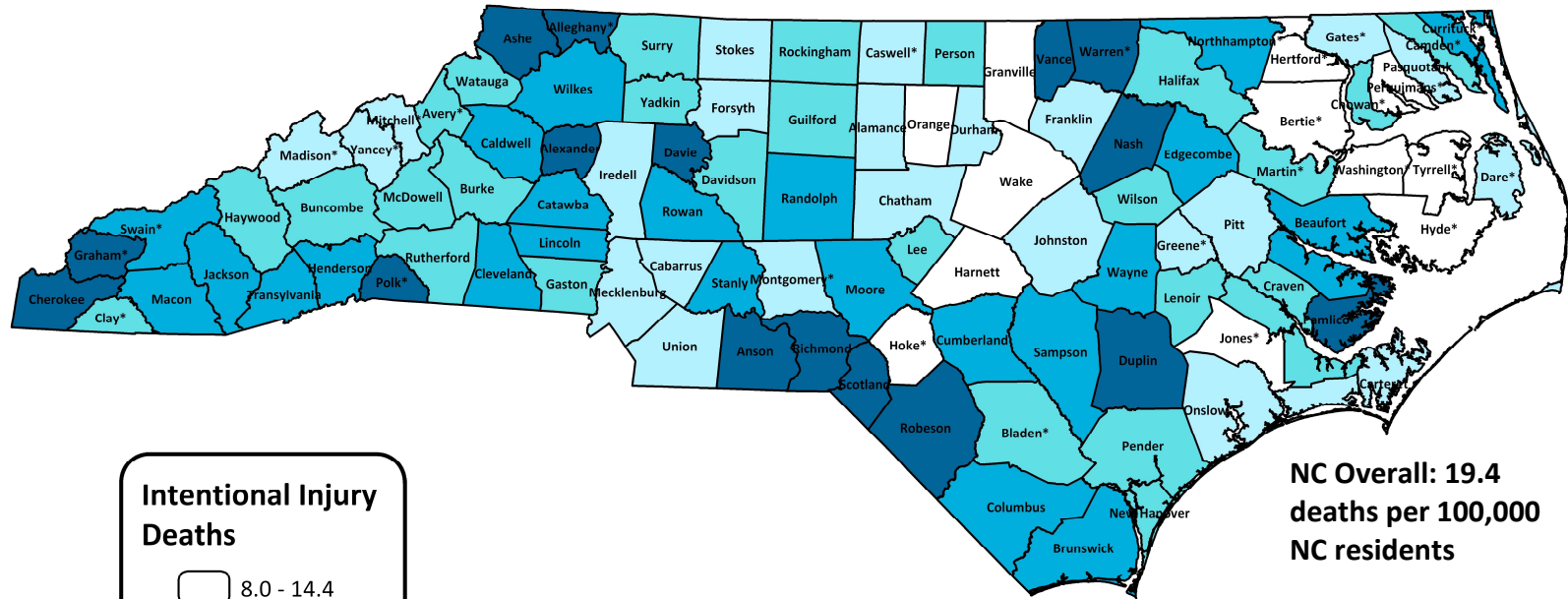
* Indicates <20 deaths; interpret rates with caution.
 Data Source: North Carolina State Center for Health Statistics
 Analysis: IVP Epidemiology and Surveillance Branch

Unintentional Injury Deaths per 100,000 North Carolina Residents: 2006-2008



* Indicates <20 deaths; interpret rates with caution.
 Data Source: North Carolina State Center for Health Statistics
 Analysis: IVP Epidemiology and Surveillance Branch

Intentional Injury Deaths per 100,000 North Carolina Residents: 2006-2008



NC Overall: 19.4 deaths per 100,000 NC residents

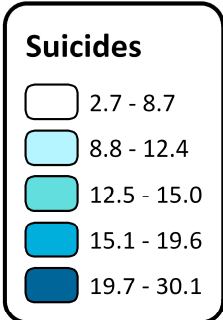
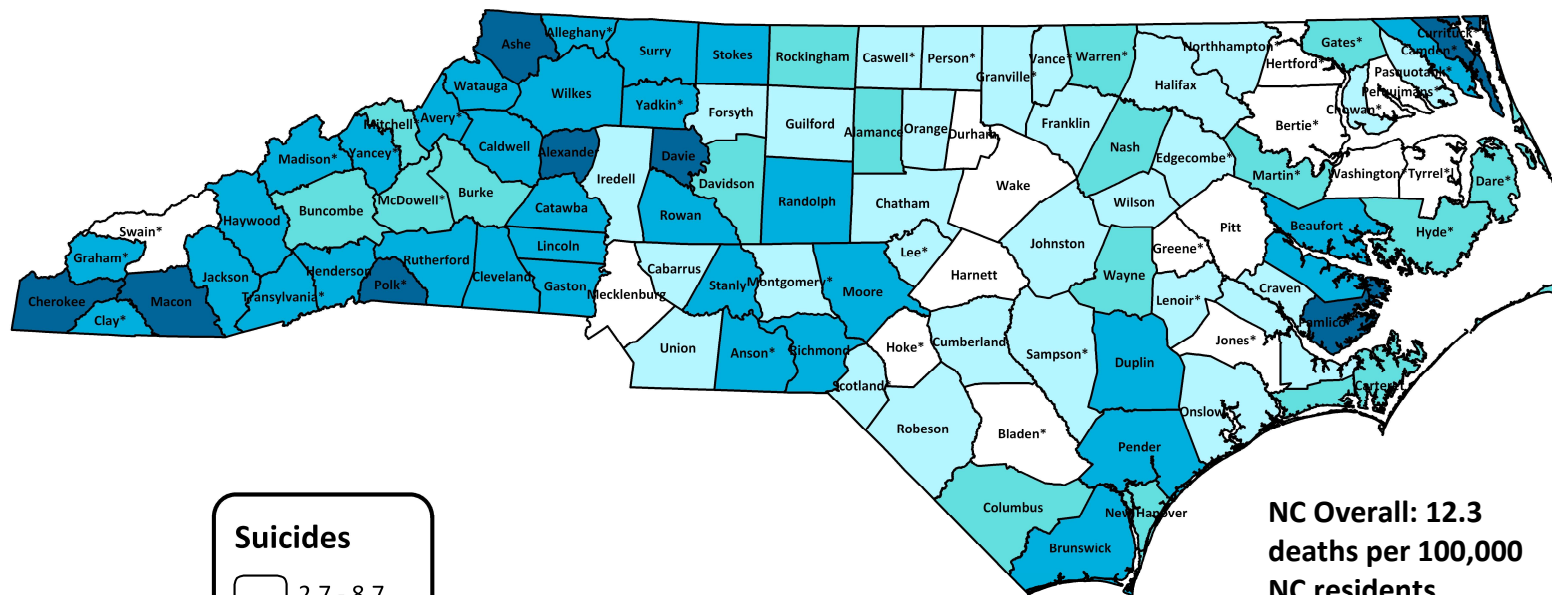
* Indicates <20 deaths; interpret rates with caution.
 Data Source: North Carolina State Center for Health Statistics
 Analysis: IVP Epidemiology and Surveillance Branch

SECTION II.

Intentional Injury Deaths, North Carolina 2006-2008

Manner of Death	Number	Percent	Rate	95% C.I.	
				<i>Lower</i>	<i>Upper</i>
Suicide	3,327	63.1	12.3	11.9	12.7
Homicide	1,943	36.9	7.2	6.9	7.5
Total	5,270	100.0	19.4	18.9	19.9

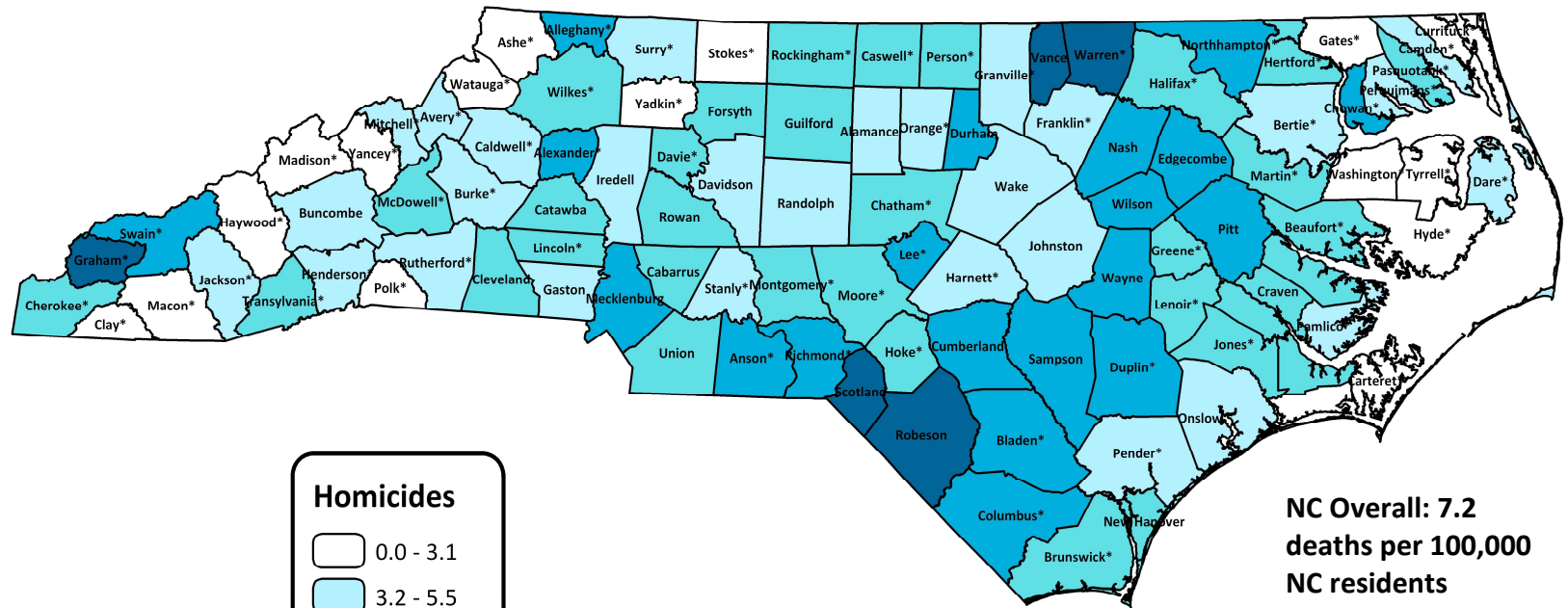
Suicides per 100,000 North Carolina Residents: 2006-2008



**NC Overall: 12.3
deaths per 100,000
NC residents**

* Indicates <20 deaths; interpret rates with caution.
Data Source: North Carolina State Center for Health Statistics
Analysis: IVP Epidemiology and Surveillance Branch

Homicides per 100,000 North Carolina Residents: 2006-2008



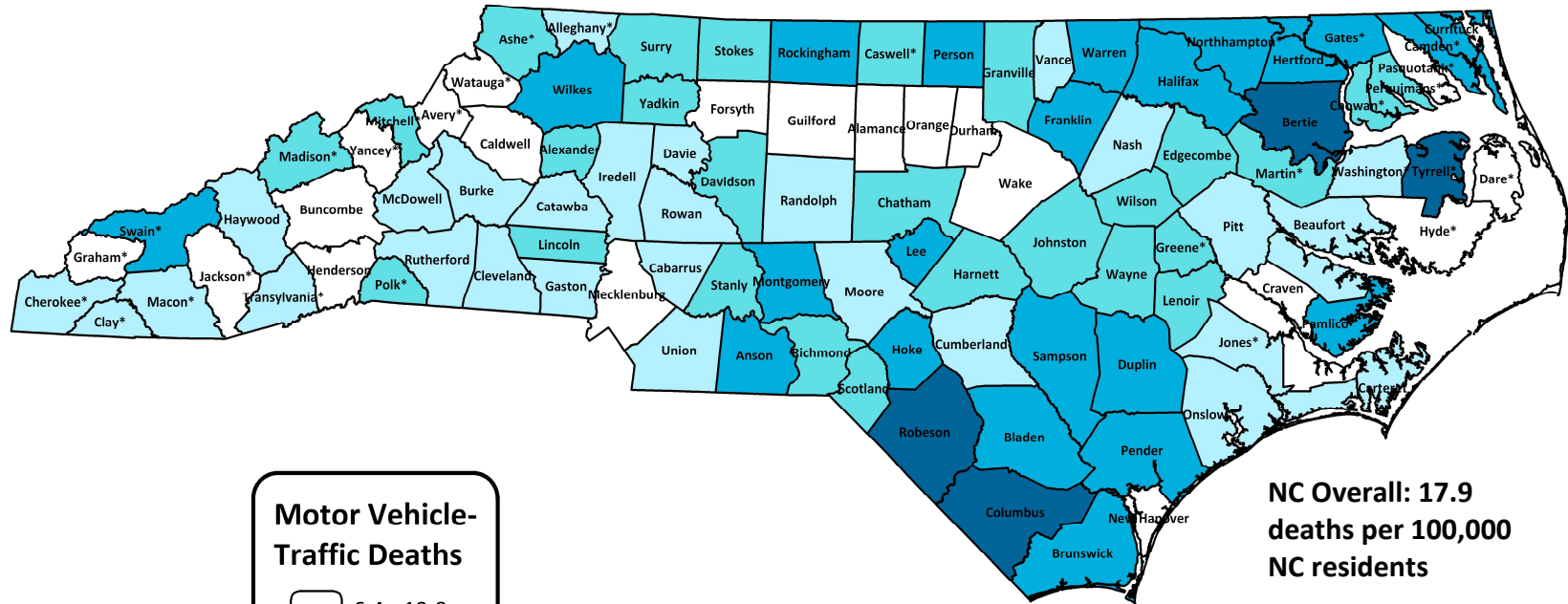
* Indicates <20 deaths; interpret rates with caution.
 Data Source: North Carolina State Center for Health Statistics
 Analysis: IVP Epidemiology and Surveillance Branch

SECTION III.

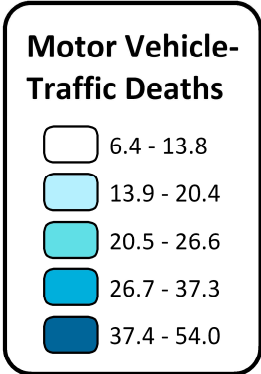
Leading Mechanisms of Injury Death, North Carolina 2006-2008

Manner of Death	Number	Percent	Rate	95% C.I.	
				<i>Lower</i>	<i>Upper</i>
Motor Vehicle-Traffic Crash	4,842	26.2	17.9	17.4	18.4
Poisoning	3,573	19.3	13.2	12.8	13.6
Firearm	3,389	18.3	12.5	12.1	12.9
Fall	1,931	10.4	7.1	6.8	7.4

Motor Vehicle-Traffic Deaths per 100,000 North Carolina Residents: 2006-2008

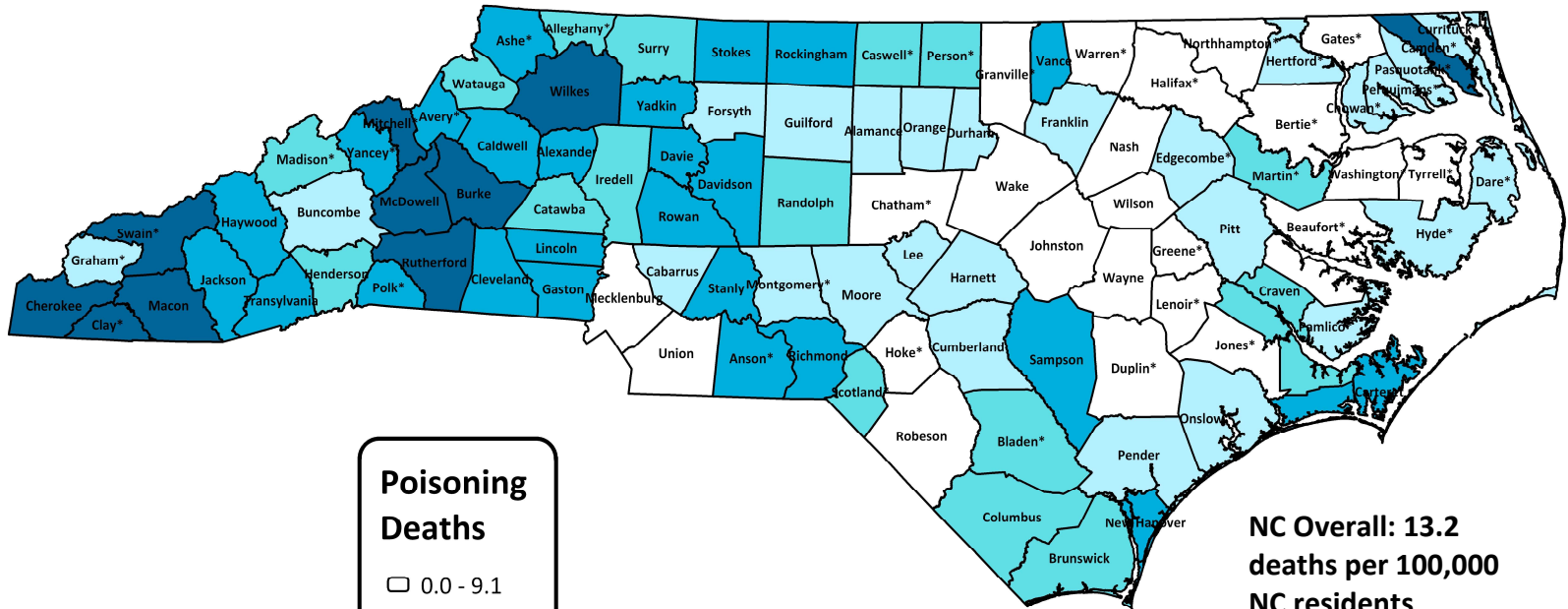


**NC Overall: 17.9
deaths per 100,000
NC residents**



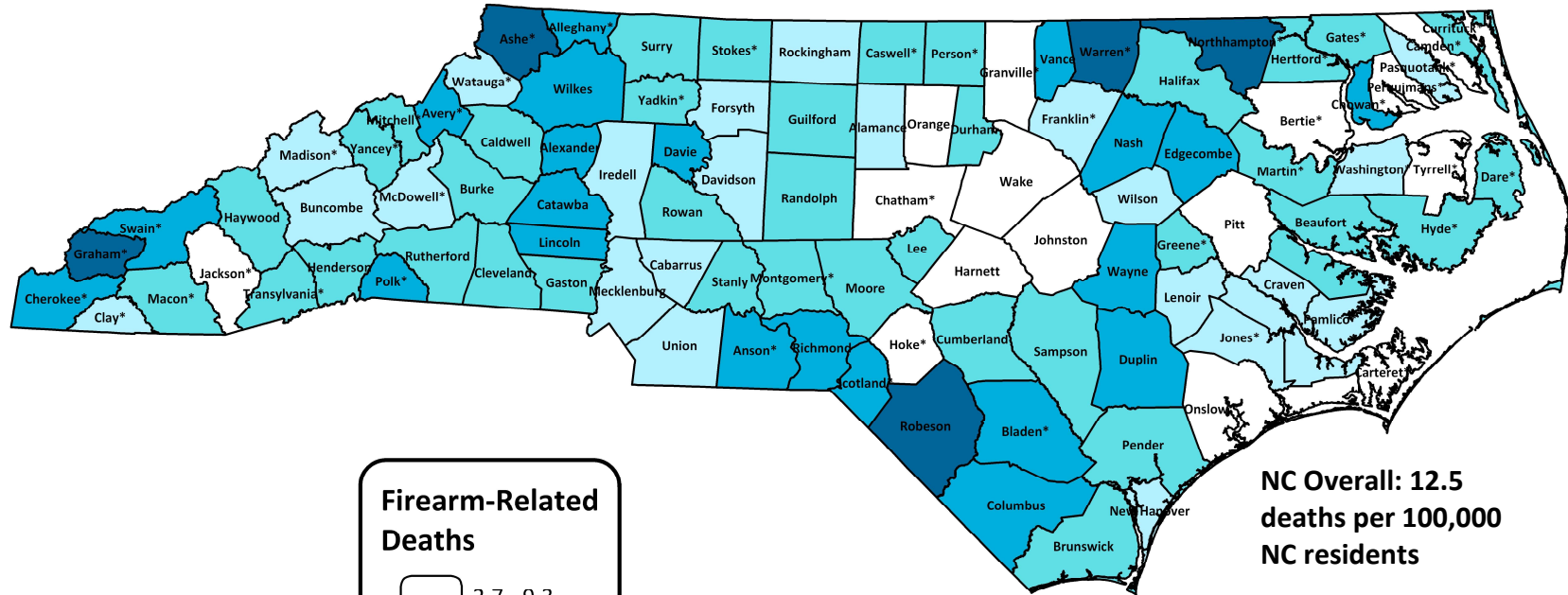
* Indicates <20 deaths; interpret rates with caution.
Data Source: North Carolina State Center for Health Statistics
Analysis: IVP Epidemiology and Surveillance Branch

Poisoning Deaths per 100,000 North Carolina Residents: 2006-2008



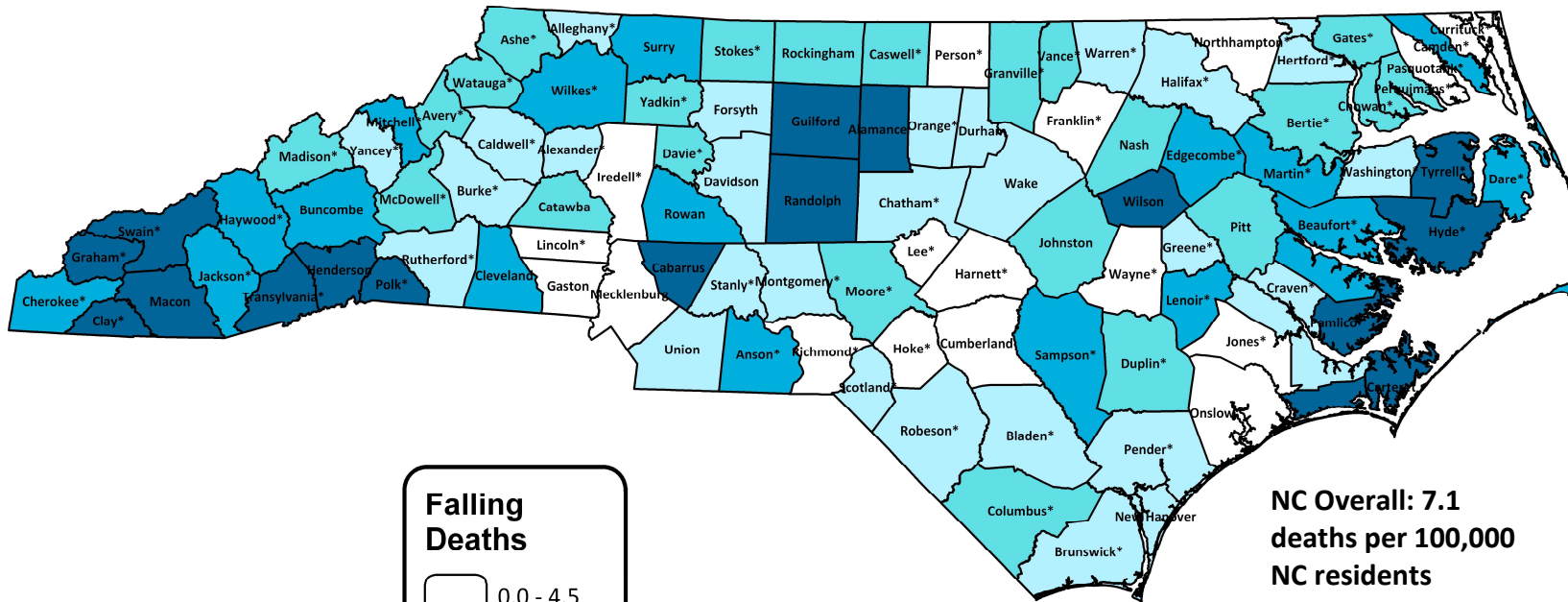
* Indicates <20 deaths; interpret rates with caution.
 Data Source: North Carolina State Center for Health Statistics
 Analysis: IVP Epidemiology and Surveillance Branch

Firearm-Related Deaths per 100,000 North Carolina Residents: 2006-2008



* Indicates <20 deaths; interpret rates with caution.
 Data Source: North Carolina State Center for Health Statistics
 Analysis: IVP Epidemiology and Surveillance Branch

Fall Deaths per 100,000 North Carolina Residents: 2006-2008



* Indicates <20 deaths; interpret rates with caution.
 Data Source: North Carolina State Center for Health Statistics
 Analysis: IVP Epidemiology and Surveillance Branch

SECTION IV.

Appendices

Appendix A. Cause of Injury Death ICD-10

MANNER OF DEATH	CODES
All Injury	V01-Y36, Y85-Y87, U01-U03
Unintentional	V01-X59, Y85-86
Intentional	X60-Y09, Y87-Y87.1, U01-U03
Suicide	X60-X84, Y87, U03
Homicide	X85-Y09, Y87.1, U01-U02
Motor Vehicle Crash	V02-V04, V09, V12-V14, V19-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81-V81.1, V82-V82.1, V83-V83.6, V87-V87.8, V88-V88.8, V89, V89.2
Poisoning	X40-X49, X60-X69, X85-X90, Y10-Y19, Y35.2, U01.6-U01.7
Firearm	W32-W34, X72-X74, X93-X95, Y22-Y24, Y35, U01.4
Fall	W00-W19, X80, Y01, Y30

Appendix B. Manner of Death by County, North Carolina Residents, 2006-2008

All Rates are per 100,000 N.C. Population

COUNTY	NO.	UNINTENTIONAL			NO.	INTENTIONAL			NO.	ALL MANNERS		
		RATE	CI			RATE	CI			RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Alamance	211	48.6	42.0	55.2	76	17.5	13.6	21.4	294	67.7	60.0	75.4
Alexander	68	62.5	47.6	77.4	34	31.3	20.8	41.8	107	98.4	79.8	117.0
Alleghany	15	*	*	*	9	*	*	*	25	76.6	46.6	106.6
Anson	56	74.0	54.6	93.4	24	31.7	19.0	44.4	82	108.3	84.9	131.7
Ashe	47	61.5	43.9	79.1	25	32.7	19.9	45.5	76	99.4	77.0	121.8
Avery	27	50.3	31.3	69.3	11	*	*	*	38	70.8	48.3	93.3
Beaufort	77	56.0	43.5	68.5	32	23.3	15.2	31.4	110	80.1	65.1	95.1
Bertie	46	80.1	57.0	103.2	8	*	*	*	54	94.0	68.9	119.1
Bladen	68	70.2	53.5	86.9	19	*	*	*	90	92.9	73.7	112.1
Brunswick	181	61.1	52.2	70.0	67	22.6	17.2	28.0	253	85.5	75.0	96.0
Buncombe	305	45.0	40.0	50.0	130	19.2	15.9	22.5	449	66.2	60.1	72.3
Burke	172	64.5	54.9	74.1	54	20.2	17.2	23.2	233	87.3	76.1	98.5
Cabarrus	264	54.2	47.7	60.7	84	17.3	13.6	21.0	357	73.4	65.8	81.0
Caldwell	120	50.3	41.3	59.3	56	23.5	-28.3	75.3	183	76.8	65.7	87.9
Camden	20	70.6	39.7	101.5	6	*	*	*	27	95.3	59.4	131.2
Carteret	112	59.1	48.2	70.0	31	16.4	10.6	22.2	148	78.1	65.5	90.7
Caswell	46	65.8	46.8	84.8	12	17.2	7.5	26.9	61	87.2	65.3	109.1
Catawba	232	49.9	43.5	56.3	109	23.4	19.0	27.8	353	75.9	68.0	83.8
Chatham	100	54.4	43.7	65.1	33	18.0	11.9	24.1	135	73.5	61.1	85.9
Cherokee	48	60.7	43.5	77.9	25	31.6	19.2	44.0	76	96.1	74.5	117.7
Chowan	29	66.3	42.2	90.4	9	*	*	*	39	89.2	61.2	117.2
Clay	23	75.2	44.5	105.9	6	*	*	*	30	98.1	63.0	133.2

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	NO.	UNINTENTIONAL			NO.	INTENTIONAL			NO.	ALL MANNERS		
		RATE	CI			RATE	CI			RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Cleveland	187	63.4	54.3	72.5	69	23.4	17.9	28.9	267	90.6	79.7	101.5
Columbus	142	87.6	73.2	102.0	39	24.1	16.6	31.6	185	114.1	97.7	130.5
Craven	130	44.9	37.2	52.6	56	19.4	14.3	24.5	193	66.7	57.3	76.1
Cumberland	352	37.9	33.9	41.9	207	22.3	19.3	25.3	579	62.4	57.3	67.5
Currituck	43	60.1	42.1	78.1	16	*	*	*	59	82.5	61.4	103.6
Dare	48	47.5	34.1	60.9	18	*	*	*	68	67.3	51.3	83.3
Davidson	253	54.0	47.3	60.7	90	19.2	15.2	23.2	354	75.5	67.6	83.4
Davie	63	52.1	39.2	65.0	33	27.3	18.0	36.6	98	81.0	65.0	97.0
Duplin	89	56.3	44.6	68.0	43	27.2	19.1	35.3	138	87.3	72.7	101.9
Durham	262	34.2	30.1	38.3	135	17.6	14.6	20.6	410	53.5	48.3	58.7
Edgecombe	93	58.7	46.8	70.6	36	22.7	15.3	30.1	131	82.7	68.5	96.9
Forsyth	427	42.2	38.2	46.2	184	18.2	15.6	20.8	631	62.4	57.5	67.3
Franklin	92	53.7	42.7	64.7	29	16.9	10.7	23.1	123	71.8	59.1	84.5
Gaston	306	50.5	44.8	56.2	130	21.4	17.7	25.1	451	74.4	67.5	81.3
Gates	17	*	*	*	6	*	*	*	23	66.1	39.1	93.1
Graham	16	*	*	*	10	*	*	*	27	114.5	71.3	157.7
Granville	81	48.5	37.9	59.1	24	14.4	8.7	20.1	108	64.6	52.4	76.8
Greene	26	42.2	26.0	58.4	10	*	*	*	38	61.7	42.1	81.3
Guilford	578	41.6	38.2	45.0	272	19.6	17.3	21.9	872	62.7	58.5	66.9
Halifax	95	57.5	45.9	69.1	32	19.4	12.7	26.1	130	78.7	65.2	92.2
Harnett	163	50	42.3	57.7	41	12.6	8.7	16.5	211	64.7	56.0	73.4
Haywood	104	61.5	49.7	73.3	36	21.3	14.3	28.3	144	85.2	71.3	99.1
Henderson	152	50.5	42.5	58.5	71	23.6	18.1	29.1	229	76.1	66.2	86.0
Hertford	39	56.0	38.4	73.6	10	*	*	*	50	71.8	51.9	91.7
Hoke	71	56.1	43.1	69.1	15	*	*	*	86	67.9	53.5	82.3

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	NO.	UNINTENTIONAL			NO.	INTENTIONAL			NO.	ALL MANNERS		
		RATE	CI			RATE	CI			RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Hyde	7	*	*	*	2	*	*	*	9	*	*	*
Iredell	217	48.0	41.6	54.4	74	16.4	12.7	20.1	301	66.6	59.1	74.1
Jackson	64	58.6	44.3	72.9	24	22	13.2	30.8	93	85.1	67.8	102.4
Johnston	221	46.9	40.7	53.1	72	15.3	11.8	18.8	299	63.5	56.3	70.7
Jones	*	*	*	*	4	*	*	*	18	*	*	*
Lee	99	57.0	45.8	68.2	37	21.3	14.4	28.2	140	80.6	67.2	94.0
Lenoir	89	52.2	41.4	63.0	34	19.9	13.2	26.6	124	72.7	59.9	85.5
Lincoln	119	54.5	44.7	64.3	52	23.8	17.3	30.3	172	78.7	66.9	90.5
Macon	81	82.9	64.9	100.9	23	23.5	13.9	33.1	107	109.5	88.8	130.2
Madison	34	55.9	37.1	74.7	11	*	*	*	47	77.3	55.2	99.4
Martin	46	65.0	46.2	83.8	14	*	*	*	62	87.6	65.8	109.4
McDowell	88	67.4	53.3	81.5	27	20.7	12.9	28.5	115	88.1	72.0	104.2
Mecklenburg	718	27.8	25.8	29.8	453	17.5	15.9	19.1	1198	46.3	43.7	48.9
Mitchell	43	91.1	63.9	118.3	8	*	*	*	53	112.2	82.0	142.4
Montgomery	49	59.9	43.1	76.7	15	*	*	*	64	78.2	59.0	97.4
Moore	137	54.3	45.2	63.4	57	22.6	16.7	28.5	207	82.1	70.9	93.3
Nash	131	47.2	39.1	55.3	78	28.1	21.9	34.3	209	75.3	65.1	85.5
New Hanover	239	42.0	36.7	47.3	119	20.9	17.1	24.7	374	65.7	59.0	72.4
Northhampton	31	49.9	32.3	67.5	16	*	*	*	50	80.6	58.3	102.9
Onslow	196	40.0	34.4	45.6	81	16.5	12.9	20.1	286	58.3	51.5	65.1
Orange	113	30.3	24.7	35.9	53	14.2	10.4	18.0	174	46.7	39.8	53.6
Pamlico	26	69.3	42.7	95.9	12	*	*	*	41	109.2	75.8	142.6
Pasquotank	45	37.1	26.3	47.9	22	18.1	10.5	25.7	71	58.6	45.0	72.2
Pender	89	59.8	47.4	72.2	29	19.5	12.4	26.6	123	82.7	68.1	97.3
Perquimans	20	53.4	30.0	76.8	3	*	*	*	26	69.4	42.7	96.1

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	NO.	UNINTENTIONAL			NO.	INTENTIONAL			NO.	ALL MANNERS		
		RATE	CI			RATE	CI			RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Person	69	61.7	47.1	76.3	22	19.7	11.5	27.9	94	84.1	67.1	101.1
Pitt	186	40.8	34.9	46.7	67	14.7	11.2	18.2	261	57.2	50.3	64.1
Polk	43	75.5	52.9	98.1	16	*	*	*	59	103.6	77.2	130.0
Randolph	230	54.9	47.8	62.0	97	23.2	18.6	27.8	336	80.2	71.6	88.8
Richmond	73	53.0	40.8	65.2	42	30.5	21.3	39.7	119	86.4	70.9	101.9
Robeson	268	69.8	61.4	78.2	145	37.8	31.7	43.9	427	111.2	100.6	121.8
Rockingham	207	74.9	64.7	85.1	54	19.5	14.3	24.7	272	98.4	86.7	110.1
Rowan	231	56.1	48.9	63.3	93	22.6	18.0	27.2	332	80.7	72.0	89.4
Rutherford	123	65	53.5	76.5	40	21.1	14.6	27.6	169	89.3	75.8	102.8
Sampson	128	67.3	55.6	79.0	41	21.6	15.0	28.2	175	92.1	78.5	105.7
Scotland	67	61.4	46.7	76.1	32	29.3	19.1	39.5	103	94.4	76.2	112.6
Stanly	102	57.5	46.3	68.7	41	23.1	16.0	30.2	145	81.8	68.5	95.1
Stokes	90	65.3	51.8	78.8	25	18.1	11.0	25.2	120	87.1	71.5	102.7
Surry	144	66.5	55.6	77.4	44	20.3	14.3	26.3	192	88.6	76.1	101.1
Swain	40	99	68.3	129.7	9	22.3	7.7	36.9	50	123.8	89.5	158.1
Transylvania	59	65.7	48.9	82.5	20	22.3	12.5	32.1	80	89.1	69.6	108.6
Tyrrell	9	72.9	25.3	120.5	1	8.1	-7.8	24.0	11	89.1	36.5	141.7
Union	197	35.9	30.9	40.9	91	16.6	13.2	20.0	296	53.9	47.8	60.0
Vance	79	61.4	47.9	74.9	36	28	18.9	37.1	119	92.4	75.8	109.0
Wake	665	26.7	24.7	28.7	307	12.3	10.9	13.7	1006	40.4	37.9	42.9
Warren	29	49.8	31.7	67.9	18	30.9	16.6	45.2	48	82.4	59.1	105.7
Washington	16	41.2	21.0	61.4	4	10.3	0.2	20.4	20	51.5	28.9	74.1
Watauga	59	44.1	32.8	55.4	25	18.7	11.4	26.0	89	66.5	52.7	80.3
Wayne	160	47.1	39.8	54.4	85	25	19.7	30.3	254	74.8	65.6	84.0
Wilkes	163	81.6	69.1	94.1	47	23.5	16.8	30.2	217	108.6	94.2	123.0

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	NO.	UNINTENTIONAL			NO.	INTENTIONAL			NO.	ALL MANNERS		
		RATE	CI			RATE	CI			RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Wilson	132	57.5	47.7	67.3	46	20	14.2	25.8	187	81.4	69.7	93.1
Yadkin	72	63.6	48.9	78.3	21	18.6	10.7	26.5	95	84	67.1	100.9
Yancey	29	52.7	33.5	71.9	9	16.4	5.7	27.1	39	70.9	48.6	93.2
Total:	12681	46.8	46.0	47.6	5270	19.4	18.9	19.9	18503	68.3	67.3	69.3

* Rate is based on fewer than 20 deaths and is considered unreliable.

Appendix C. Intentional Injury Deaths by County, N.C. Residents, 2006-2008

All Rates are per 100,000 N.C. Population

COUNTY	NO.	SUICIDE			NO.	HOMICIDE			NO.	INTENTIONAL INJURY		
		RATE	CI			RATE	CI			RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Alamance	55	12.7	9.4	16.0	21	4.8	2.7	6.9	76	17.5	13.6	21.4
Alexander	24	22.1	13.3	30.9	10	*	*	*	34	31.3	20.8	41.8
Alleghany	6	*	*	*	3	*	*	*	9	*	*	*
Anson	12	*	*	*	12	*	*	*	24	31.7	19.0	44.4
Ashe	23	30.1	17.8	42.4	2	*	*	*	25	32.7	19.9	45.5
Avery	9	*	*	*	2	*	*	*	11	*	*	*
Beaufort	23	16.7	9.9	23.5	9	*	*	*	32	23.3	15.2	31.4
Bertie	5	*	*	*	3	*	*	*	8	*	*	*
Bladen	8	*	*	*	11	*	*	*	19	*	*	*
Brunswick	49	16.6	12.0	21.2	18	*	*	*	67	22.6	17.2	28.0
Buncombe	101	14.9	12.0	17.8	29	4.3	2.7	5.9	130	19.2	15.9	22.5
Burke	40	15.0	10.4	19.6	14	*	*	*	54	20.2	17.2	23.2
Cabarrus	54	11.1	8.1	14.1	30	6.2	4.0	8.4	84	17.3	13.6	21.0
Caldwell	43	18.0	12.6	23.4	13	*	*	*	56	23.5	-28.3	75.3
Camden	5	*	*	*	1	*	*	*	6	*	*	*
Carteret	26	13.7	8.4	19.0	5	*	*	*	31	16.4	10.6	22.2
Caswell	8	*	*	*	4	*	*	*	12	*	*	*
Catawba	78	16.8	13.1	20.5	31	6.7	4.4	9.0	109	23.4	19.0	27.8
Chatham	20	10.9	6.1	15.7	13	*	*	*	33	18.0	11.9	24.1
Cherokee	20	25.3	14.2	36.4	5	*	*	*	25	31.6	19.2	44.0
Chowan	5	*	*	*	4	*	*	*	9	*	*	*
Clay	6	*	*	*	0	*	*	*	6	*	*	*

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	SUICIDE				HOMICIDE				INTENTIONAL INJURY			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Cleveland	48	16.3	11.7	20.9	21	7.1	4.1	10.1	69	23.4	17.9	28.9
Columbus	21	13.0	7.5	18.5	18	*	*	*	39	24.1	16.6	31.6
Craven	35	12.1	8.1	16.1	21	7.3	4.2	10.4	56	19.4	14.3	24.5
Cumberland	112	12.1	9.9	14.3	95	10.2	8.1	12.3	207	22.3	19.3	25.3
Currituck	15	*	*	*	1	*	*	*	16	*	*	*
Dare	14	*	*	*	4	*	*	*	18	*	*	*
Davidson	66	14.1	10.7	17.5	24	5.1	3.1	7.1	90	19.2	15.2	23.2
Davie	25	20.7	12.6	28.8	8	*	*	*	33	27.3	18.0	36.6
Duplin	25	15.8	9.6	22.0	18	*	*	*	43	27.2	19.1	35.3
Durham	57	7.4	5.5	9.3	78	10.2	7.9	12.5	135	17.6	14.6	20.6
Edgecombe	15	*	*	*	21	13.3	7.6	19.0	36	22.7	15.3	30.1
Forsyth	111	11.0	9.0	13.0	73	7.2	5.5	8.9	184	18.2	15.6	20.8
Franklin	21	12.3	7.1	17.5	8	*	*	*	29	16.9	10.7	23.1
Gaston	99	16.3	13.1	19.5	31	5.1	3.3	6.9	130	21.4	17.7	25.1
Gates	5	*	*	*	1	*	*	*	6	*	*	*
Graham	4	*	*	*	6	*	*	*	10	*	*	*
Granville	18	*	*	*	6	*	*	*	24	14.4	8.7	20.1
Greene	5	*	*	*	5	*	*	*	10	*	*	*
Guilford	152	10.9	9.2	12.6	120	8.6	7.1	10.1	272	19.6	17.3	21.9
Halifax	20	12.1	6.8	17.4	12	*	*	*	32	19.4	12.7	26.1
Harnett	24	7.4	4.5	10.3	17	*	*	*	41	12.6	8.7	16.5
Haywood	33	19.5	12.8	26.2	3	*	*	*	36	21.3	14.3	28.3
Henderson	55	18.3	13.5	23.1	16	*	*	*	71	23.6	18.1	29.1
Hertford	6	*	*	*	4	*	*	*	10	*	*	*
Hoke	6	*	*	*	9	*	*	*	15	*	*	*

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	SUICIDE				HOMICIDE				INTENTIONAL INJURY			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Hyde	2	*	*	*	0	*	*	*	2	*	*	*
Iredell	51	11.3	8.2	14.4	23	5.1	3.0	7.2	74	16.4	12.7	20.1
Jackson	20	18.3	10.3	26.3	4	*	*	*	24	22.0	13.2	30.8
Johnston	47	10.0	7.1	12.9	25	5.3	3.2	7.4	72	15.3	11.8	18.8
Jones	2	*	*	*	2	*	*	*	4	*	*	*
Lee	17	*	*	*	20	11.5	6.5	16.5	37	21.3	14.4	28.2
Lenoir	19	*	*	*	15	*	*	*	34	19.9	13.2	26.6
Lincoln	39	17.9	12.3	23.5	13	*	*	*	52	23.8	17.3	30.3
Macon	20	20.5	11.5	29.5	3	*	*	*	23	23.5	13.9	33.1
Madison	10	*	*	*	1	*	*	*	11	*	*	*
Martin	10	*	*	*	4	*	*	*	14	*	*	*
McDowell	18	*	*	*	9	*	*	*	27	20.7	12.9	28.5
Mecklenburg	210	8.1	7.0	9.2	243	9.4	8.2	10.6	453	17.5	15.9	19.1
Mitchell	6	*	*	*	2	*	*	*	8	*	*	*
Montgomery	9	*	*	*	6	*	*	*	15	*	*	*
Moore	41	16.3	11.3	21.3	16	*	*	*	57	22.6	16.7	28.5
Nash	38	13.7	9.3	18.1	40	14.4	9.9	18.9	78	28.1	21.9	34.3
New Hanover	83	14.6	11.5	17.7	36	6.3	4.2	8.4	119	20.9	17.1	24.7
Northhampton	7	*	*	*	9	*	*	*	16	*	*	*
Onslow	55	11.2	8.2	14.2	26	5.3	3.3	7.3	81	16.5	12.9	20.1
Orange	37	9.9	6.7	13.1	16	*	*	*	53	14.2	10.4	18.0
Pamlico	10	*	*	*	2	*	*	*	12	*	*	*
Pasquotank	15	*	*	*	7	*	*	*	22	18.1	10.5	25.7
Pender	23	15.5	9.2	21.8	6	*	*	*	29	19.5	12.4	26.6
Perquimans	1	*	*	*	2	*	*	*	3	*	*	*

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	SUICIDE				HOMICIDE				INTENTIONAL INJURY			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Person	13	*	*	*	9	*	*	*	22	19.7	11.5	27.9
Pitt	26	5.7	3.5	7.9	41	9.0	6.3	11.7	67	14.7	11.2	18.2
Polk	15	*	*	*	1	*	*	*	16	*	*	*
Randolph	76	18.1	14.0	22.2	21	5.0	2.9	7.1	97	23.2	18.6	27.8
Richmond	26	18.9	11.6	26.2	16	*	*	*	42	30.5	21.3	39.7
Robeson	47	12.2	8.7	15.7	98	25.5	20.4	30.6	145	37.8	31.7	43.9
Rockingham	37	13.4	9.1	17.7	17	*	*	*	54	19.5	14.3	24.7
Rowan	70	17.0	13.0	21.0	23	5.6	3.3	7.9	93	22.6	18.0	27.2
Rutherford	30	15.9	10.2	21.6	10	*	*	*	40	21.1	14.6	27.6
Sampson	18	*	*	*	23	12.1	7.2	17.0	41	21.6	15.0	28.2
Scotland	11	*	*	*	21	19.2	11.0	27.4	32	29.3	19.1	39.5
Stanly	33	18.6	12.3	24.9	8	*	*	*	41	23.1	16.0	30.2
Stokes	24	17.4	10.4	24.4	1	*	*	*	25	18.1	11.0	25.2
Surry	34	15.7	10.4	21.0	10	*	*	*	44	20.3	14.3	26.3
Swain	3	*	*	*	6	*	*	*	9	*	*	*
Transylvania	15	*	*	*	5	*	*	*	20	22.3	12.5	32.1
Tyrrell	1	*	*	*	0	*	*	*	1	*	*	*
Union	59	10.7	8.0	13.4	32	5.8	3.8	7.8	91	16.6	13.2	20.0
Vance	13	*	*	*	23	17.9	10.6	25.2	36	28.0	18.9	37.1
Wake	213	8.6	7.5	9.7	94	3.8	3.0	4.6	307	12.3	10.9	13.7
Warren	8	*	*	*	10	*	*	*	18	*	*	*
Washington	3	*	*	*	1	*	*	*	4	*	*	*
Watauga	21	15.7	9.0	22.4	4	*	*	*	25	18.7	11.4	26.0
Wayne	44	13.0	9.2	16.8	41	12.1	8.4	15.8	85	25.0	19.7	30.3
Wilkes	35	17.5	11.7	23.3	12	*	*	*	47	23.5	16.8	30.2

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	SUICIDE				HOMICIDE				INTENTIONAL INJURY			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Wilson	23	10.0	5.9	14.1	23	10.0	5.9	14.1	46	20.0	14.2	25.8
Yadkin	18	*	*	*	3	*	*	*	21	18.6	10.7	26.5
Yancey	9	*	*	*	0	*	*	*	9	*	*	*
Total:	3327	12.3	11.9	12.7	1943	7.2	6.9	7.5	5270	19.4	18.9	19.9

* Rate is based on fewer than 20 deaths and is considered unreliable.

Appendix D. Mechanisms of Injury Death by County, N.C. Residents, 2006-2008

All Rates are per 100,000 N.C. Population

COUNTY	MOTOR VEHICLE-TRAFFIC				POISONING				FIREARM				FALL			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Alamance	57	13.1	9.7	16.5	58	13.4	10.0	16.8	45	10.4	7.4	13.4	57	13.1	9.7	16.5
Alexander	23	21.1	12.5	29.7	25	23.0	14.0	32.0	23	21.1	12.5	29.7	7	6.4	1.6	11.2
Alleghany	5	*	*	*	5	*	*	*	7	*	*	*	2	*	*	*
Anson	25	33.0	20.1	45.9	18	*	*	*	17	*	*	*	7	*	*	*
Ashe	16	*	*	*	18	*	*	*	18	*	*	*	6	*	*	*
Avery	6	*	*	*	11	*	*	*	10	*	*	*	4	*	*	*
Beaufort	26	18.9	11.6	26.2	10	*	*	*	21	15.3	8.8	21.8	13	*	*	*
Bertie	31	54.0	35.0	73.0	2	*	*	*	4	*	*	*	5	*	*	*
Bladen	33	34.1	22.5	45.7	15	*	*	*	18	*	*	*	6	*	*	*
Brunswick	91	30.7	24.4	37.0	49	16.6	12.0	21.2	39	13.2	9.1	17.3	17	*	*	*
Buncombe	83	12.2	9.6	14.8	89	13.1	10.4	15.8	74	10.9	8.4	13.4	75	11.1	8.6	13.6
Burke	50	18.7	13.5	23.9	75	28.1	21.7	34.5	40	15.0	10.4	19.6	17	*	*	*
Cabarrus	75	15.4	11.9	18.9	68	14.0	10.7	17.3	52	10.7	7.8	13.6	79	16.2	12.6	19.8
Caldwell	31	13.0	8.4	17.6	57	23.9	17.7	30.1	37	15.5	10.5	20.5	15	*	*	*
Camden	8	*	*	*	9	*	*	*	1	*	*	*	3	*	*	*
Carteret	35	18.5	12.4	24.6	35	18.5	12.4	24.6	16	*	*	*	26	13.7	8.4	19.0
Caswell	18	*	*	*	12	*	*	*	10	*	*	*	5	*	*	*
Catawba	82	17.6	13.8	21.4	77	16.6	12.9	20.3	76	16.3	12.6	20.0	32	6.9	4.5	9.3
Chatham	40	21.8	15.1	28.5	15	*	*	*	14	*	*	*	12	*	*	*
Cherokee	13	*	*	*	23	29.1	17.2	41.0	14	*	*	*	9	*	*	*
Chowan	11	*	*	*	5	*	*	*	8	*	*	*	3	*	*	*
Clay	6	*	*	*	9	*	*	*	3	*	*	*	4	*	*	*
Cleveland	60	20.4	15.3	25.5	52	17.6	12.8	22.4	44	14.9	10.5	19.3	32	10.9	7.1	14.7

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	MOTOR VEHICLE-TRAFFIC				POISONING				FIREARM				FALL			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Cumberland	177	19.1	16.3	21.9	97	10.4	8.3	12.5	127	13.7	11.3	16.1	37	4.0	2.7	5.3
Currituck	24	33.6	20.2	47.0	9	*	*	*	10	*	*	*	1	*	*	*
Dare	12	*	*	*	13	*	*	*	13	*	*	*	10	*	*	*
Davidson	100	21.3	17.1	25.5	89	19.0	15.1	22.9	53	11.3	8.3	14.3	22	4.7	2.7	6.7
Davie	21	17.4	10.0	24.8	24	19.8	11.9	27.7	20	16.5	9.3	23.7	9	*	*	*
Duplin	44	27.8	19.6	36.0	12	*	*	*	32	20.2	13.2	27.2	12	*	*	*
Durham	86	11.2	8.8	13.6	79	10.3	8.0	12.6	95	12.4	9.9	14.9	36	4.7	3.2	6.2
Edgecombe	38	24.0	16.4	31.6	16	*	*	*	29	18.3	11.6	25.0	17	*	*	*
Forsyth	125	12.4	10.2	14.6	134	13.2	11.0	15.4	111	11.0	9.0	13.0	58	5.7	4.2	7.2
Franklin	47	27.4	19.6	35.2	20	11.7	6.6	16.8	18	*	*	*	5	*	*	*
Gaston	104	17.1	13.8	20.4	132	21.8	18.1	25.5	83	13.7	10.8	16.6	23	3.8	2.2	5.4
Gates	10	*	*	*	0	*	*	*	5	*	*	*	3	*	*	*
Graham	3	*	*	*	3	*	*	*	8	*	*	*	3	*	*	*
Granville	35	20.9	14.0	27.8	15	*	*	*	13	*	*	*	13	*	*	*
Greene	13	*	*	*	2	*	*	*	8	*	*	*	3	*	*	*
Guilford	192	13.8	11.8	15.8	141	10.1	8.4	11.8	173	12.4	10.5	14.3	178	12.8	10.9	14.7
Halifax	48	29.1	20.9	37.3	8	*	*	*	22	13.3	7.7	18.9	10	*	*	*
Harnett	81	24.9	19.5	30.3	42	12.9	9.0	16.8	28	8.6	5.4	11.8	13	*	*	*
Haywood	34	20.1	13.3	26.9	30	17.7	11.4	24.0	26	15.4	9.5	21.3	16	*	*	*
Henderson	32	10.6	6.9	14.3	46	15.3	10.9	19.7	38	12.6	8.6	16.6	58	19.3	14.3	24.3
Hertford	23	33.0	19.5	46.5	7	*	*	*	9	*	*	*	4	*	*	*
Hoke	42	33.2	23.2	43.2	11	*	*	*	9	*	*	*	4	*	*	*
Hyde	1	*	*	*	2	*	*	*	2	*	*	*	2	*	*	*
Iredell	82	18.1	14.2	22.0	64	14.2	10.7	17.7	51	11.3	8.2	14.4	14	*	*	*
Jackson	15	*	*	*	23	21.0	12.4	29.6	10	*	*	*	13	*	*	*

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	MOTOR VEHICLE-TRAFFIC				POISONING				FIREARM				FALL			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Johnston	112	23.8	19.4	28.2	33	7.0	4.6	9.4	44	9.3	6.5	12.1	38	8.1	5.5	10.7
Jones	6	*	*	*	1	*	*	*	3	*	*	*	1	*	*	*
Lee	47	27.1	19.4	34.8	20	11.5	6.5	16.5	26	15.0	9.2	20.8	6	*	*	*
Lenoir	37	21.7	14.7	28.7	15	*	*	*	21	12.3	7.0	17.6	17	*	*	*
Lincoln	52	23.8	17.3	30.3	41	18.8	13.1	24.5	38	17.4	11.9	22.9	6	*	*	*
Macon	16	*	*	*	28	28.6	18.0	39.2	14	*	*	*	21	21.5	12.3	30.7
Madison	14	*	*	*	9	*	*	*	6	*	*	*	5	*	*	*
Martin	16	*	*	*	10	*	*	*	10	*	*	*	8	*	*	*
McDowell	26	19.9	12.2	27.6	36	27.6	18.6	36.6	16	*	*	*	11	*	*	*
Mecklenburg	280	10.8	9.5	12.1	199	7.7	6.6	8.8	303	11.7	10.4	13.0	105	4.1	3.3	4.9
Mitchell	12	*	*	*	14	*	*	*	7	*	*	*	5	*	*	*
Montgomery	24	29.3	17.6	41.0	8	*	*	*	12	*	*	*	4	*	*	*
Moore	49	19.4	14.0	24.8	35	13.9	9.3	18.5	32	12.7	8.3	17.1	17	*	*	*
Nash	55	19.8	14.6	25.0	25	9.0	5.5	12.5	55	19.8	14.6	25.0	22	7.9	4.6	11.2
New Hanover	74	13.0	10.0	16.0	104	18.3	14.8	21.8	67	11.8	9.0	14.6	32	5.6	3.7	7.5
Northhampton	19	*	*	*	4	*	*	*	16	*	*	*	0	*	*	*
Onslow	91	18.6	14.8	22.4	51	10.4	7.5	13.3	42	8.6	6.0	11.2	21	4.3	2.5	6.1
Orange	45	12.1	8.6	15.6	35	9.4	6.3	12.5	30	8.1	5.2	11.0	18	*	*	*
Pamlico	14	*	*	*	4	*	*	*	4	*	*	*	6	*	*	*
Pasquotank	10	*	*	*	16	*	*	*	14	*	*	*	5	*	*	*
Pender	43	28.9	20.3	37.5	20	13.4	7.5	19.3	20	13.4	7.5	19.3	8	*	*	*
Perquimans	8	*	*	*	4	*	*	*	1	*	*	*	3	*	*	*
Person	33	29.5	19.4	39.6	18	*	*	*	15	*	*	*	5	*	*	*
Pitt	87	19.1	15.1	23.1	44	9.6	6.8	12.4	41	9.0	6.3	11.7	31	6.8	4.4	9.2
Polk	13	*	*	*	12	*	*	*	10	*	*	*	7	*	*	*

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	MOTOR VEHICLE-TRAFFIC				POISONING				FIREARM				FALL			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Randolph	79	18.9	14.7	23.1	61	14.6	10.9	18.3	61	14.6	10.9	18.3	55	13.1	9.6	16.6
Richmond	29	21.1	13.4	28.8	28	20.3	12.8	27.8	26	18.9	11.6	26.2	5	*	*	*
Robeson	166	43.2	36.6	49.8	35	9.1	6.1	12.1	113	29.4	24.0	34.8	18	*	*	*
Rockingham	75	27.1	21.0	33.2	59	21.3	15.9	26.7	32	11.6	7.6	15.6	24	8.7	5.2	12.2
Rowan	83	20.2	15.9	24.5	82	19.9	15.6	24.2	57	13.9	10.3	17.5	38	9.2	6.3	12.1
Rutherford	36	19.0	12.8	25.2	57	30.1	22.3	37.9	25	13.2	8.0	18.4	11	*	*	*
Sampson	52	27.4	20.0	34.8	35	18.4	12.3	24.5	27	14.2	8.8	19.6	18	*	*	*
Scotland	29	26.6	16.9	36.3	16	*	*	*	18	*	*	*	6	*	*	*
Stanly	39	22.0	15.1	28.9	32	18.0	11.7	24.3	28	15.8	10.0	21.6	9	*	*	*
Stokes	34	24.7	16.4	33.0	31	22.5	14.6	30.4	19	*	*	*	11	*	*	*
Surry	45	20.8	14.7	26.9	38	17.5	11.9	23.1	30	13.8	8.8	18.8	22	10.2	6.0	14.4
Swain	11	*	*	*	15	*	*	*	7	*	*	*	8	*	*	*
Transylvania	16	*	*	*	21	23.4	13.4	33.4	12	*	*	*	11	*	*	*
Tyrrell	6	*	*	*	1	*	*	*	1	*	*	*	2	*	*	*
Union	89	16.2	12.8	19.6	46	8.4	6.0	10.8	63	11.5	8.7	14.3	31	5.6	3.6	7.6
Vance	25	19.4	11.8	27.0	24	18.6	11.1	26.1	27	21.0	13.1	28.9	11	*	*	*
Wake	259	10.4	9.1	11.7	200	8.0	6.9	9.1	171	6.9	5.9	7.9	129	5.2	4.3	6.1
Warren	20	34.3	19.3	49.3	3	*	*	*	14	24.0	11.4	36.6	3	*	*	*
Washington	7	*	*	*	1	*	*	*	4	*	*	*	2	*	*	*
Watauga	18	*	*	*	21	15.7	9.0	22.4	14	*	*	*	10	*	*	*
Wayne	78	23.0	17.9	28.1	30	8.8	5.6	12.0	62	18.3	13.8	22.8	15	*	*	*
Wilkes	57	28.5	21.1	35.9	70	35.0	26.8	43.2	35	17.5	11.7	23.3	19	*	*	*
Wilson	54	23.5	17.2	29.8	20	8.7	4.9	12.5	26	11.3	6.9	15.7	35	15.2	10.2	20.2
Yadkin	26	23.0	14.2	31.8	21	18.6	10.7	26.5	18	*	*	*	8	*	*	*
Yancey	6	*	*	*	13	*	*	*	7	*	*	*	3	*	*	*

N.C. Injury and Violence Prevention Branch | Injury Atlas for North Carolina, 2006-2008

COUNTY	MOTOR VEHICLE-TRAFFIC				POISONING				FIREARM				FALL			
	NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI		NO.	RATE	CI	
			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER			LOWER	UPPER
Total:	4,842	17.9	17.4	18.4	3573	13.2	12.8	13.6	3,389	12.5	12.1	12.9	1,931	7.1	6.8	7.4

* Rate is based on fewer than 20 deaths and is considered unreliable.