

North Carolina Department of Transportation
Transportation Mobility and Safety Division
Traffic Safety Unit
2014 ~ 2018 Five Year Crash Rates

ITEMS		TOTAL CRASH RATE (1)	FATAL CRASH RATE (1)	NON-FATAL INJURY CRASH RATE (1)	WET CRASH RATE (1)	NIGHT CRASH RATE (1)	RUN-OFF-ROAD CRASH RATE (1, 3)	SEVERITY INDEX (2)
INTERSTATES	RURAL	67.38	0.56	15.08	14.72	22.32	26.77	4.18
	URBAN	127.77	0.40	29.30	25.55	31.14	24.87	3.31
	STATE-WIDE	113.38	0.44	25.91	22.97	29.04	25.32	3.43
US ROUTES	RURAL	112.60	1.11	32.31	21.34	39.66	38.44	5.10
	URBAN	254.93	0.96	72.78	42.81	54.18	29.47	3.86
	STATE-WIDE	196.19	1.02	56.08	33.95	48.19	33.17	4.15
NC ROUTES	RURAL	167.44	1.85	50.82	26.67	61.68	59.94	5.53
	URBAN	296.64	1.11	88.51	46.82	64.49	33.24	3.98
	STATE-WIDE	233.14	1.47	69.99	36.92	63.11	46.36	4.52
PRIMARY	RURAL	121.22	1.24	34.76	21.66	43.31	43.24	5.19
	URBAN	207.95	0.75	57.03	36.08	46.26	28.25	3.75
	STATE-WIDE	175.85	0.93	48.79	30.74	45.17	33.80	4.11
SECONDARY ROAD	RURAL	234.05	2.49	67.20	39.12	98.56	117.21	5.30
	URBAN	312.69	1.07	92.24	51.46	73.00	53.91	3.98
	STATE-WIDE	286.39	1.54	83.86	47.33	81.55	75.08	4.34
STATEWIDE ALL SYSTEM ROUTES	RURAL	148.03	1.54	42.47	25.81	56.44	60.81	5.23
	URBAN	235.91	0.83	66.43	40.19	53.40	35.10	3.83
	STATE-WIDE	204.19	1.09	57.78	35.00	54.49	44.38	4.20

(1) CRASH RATES ARE IN CRASHES PER 100 MILLION VEHICLE MILES OF TRAVEL

(2) SEVERITY INDEX = (76.8*(F+A) + 8.4*(B+C) + PDO) / TOTAL CRASHES

(3) RUN-OFF ROAD CRASHES INCLUDE: RUN-OFF ROAD (RIGHT, LEFT OR STRAIGHT), FIXED OBJECT, OVERTURN/ROLLOVER, SIDESWIPE OPPOSITE DIRECTION, PARKED VEHICLE, AND HEAD ON CRASH TYPES.

**2014-2018 Five Year Crash Rates
By Road System, Type and Control
Crash Rate per 100 Million Vehicle Miles Traveled**

RURAL INTERSTATE ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED 2 LANES CONT. LEFT TURN LANE 3 LANES UNDIVIDED 4 OR MORE LANES UNDIVIDED 4 OR MORE LANES CONT. LEFT TURN 4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS PARTIAL CONTROL ACCESS FULL CONTROL ACCESS							
	551	67.38	0.56	15.08	14.72	22.32	26.77
TOTAL	551	67.38	0.56	15.08	14.72	22.32	26.77

URBAN INTERSTATE ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED 2 LANES CONT. LEFT TURN LANE 3 LANES UNDIVIDED 4 OR MORE LANES UNDIVIDED 4 OR MORE LANES CONT. LEFT TURN 4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS PARTIAL CONTROL ACCESS FULL CONTROL ACCESS							
	718	127.77	0.40	29.30	25.55	31.14	24.87
TOTAL	718	127.77	0.40	29.30	25.55	31.14	24.87

ALL INTERSTATE ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED 2 LANES CONT. LEFT TURN LANE 3 LANES UNDIVIDED 4 OR MORE LANES UNDIVIDED 4 OR MORE LANES CONT. LEFT TURN 4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS PARTIAL CONTROL ACCESS FULL CONTROL ACCESS							
	1269	113.38	0.44	25.91	22.97	29.04	25.32
TOTAL	1,269	113.38	0.44	25.91	22.97	29.04	25.32

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES

**2014-2018 Five Year Crash Rates
By Road System, Type and Control
Crash Rate per 100 Million Vehicle Miles Traveled**

RURAL UNITED STATES ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	2,348	155.23	1.74	48.20	26.11	53.85	53.64
2 LANES CONT. LEFT TURN LANE *	23	105.20	2.59	35.62	22.88	25.00	38.92
3 LANES UNDIVIDED *	12	255.26	1.50	75.60	47.91	51.65	57.64
4 OR MORE LANES UNDIVIDED *	49	200.15	1.35	56.02	34.48	40.80	30.44
4 OR MORE LANES CONT. LEFT TURN LANE	112	120.39	0.94	37.15	21.05	34.18	22.84
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	382	89.05	0.71	24.61	14.74	33.22	25.37
PARTIAL CONTROL ACCESS	283	75.06	0.77	20.13	15.12	28.40	25.43
FULL CONTROL ACCESS	379	71.29	0.53	14.99	21.18	29.23	35.68
TOTAL	3,588	112.60	1.11	32.31	21.34	66.11	64.06

URBAN UNITED STATES ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	592	256.54	1.15	77.99	42.38	54.60	42.40
2 LANES CONT. LEFT TURN LANE *	47	265.36	0.99	83.58	39.82	58.47	35.78
3 LANES UNDIVIDED *	29	662.42	1.56	181.28	107.25	138.15	60.13
4 OR MORE LANES UNDIVIDED	134	558.95	1.61	157.76	88.81	99.42	39.76
4 OR MORE LANES CONT. LEFT TURN LANE	259	326.43	1.51	96.09	51.96	59.68	23.82
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	369	315.52	0.92	88.03	48.41	67.01	23.87
PARTIAL CONTROL ACCESS	229	209.11	0.83	62.61	36.89	51.21	25.77
FULL CONTROL ACCESS	296	90.87	0.49	22.16	22.19	25.12	28.07
TOTAL	1,955	254.93	0.96	72.78	42.81	54.18	29.47

ALL UNITED STATES ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	2,940	191.06	1.53	58.74	31.86	54.12	49.67
2 LANES CONT. LEFT TURN LANE *	70	221.24	1.43	70.37	35.15	49.25	36.65
3 LANES UNDIVIDED *	41	609.79	1.55	167.62	99.58	126.97	59.81
4 OR MORE LANES UNDIVIDED	183	497.47	1.56	140.33	79.50	89.38	38.16
4 OR MORE LANES CONT. LEFT TURN LANE	371	279.05	1.38	82.54	44.86	53.82	23.59
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	751	235.27	0.85	65.56	36.48	55.04	24.40
PARTIAL CONTROL ACCESS	512	157.12	0.80	46.14	28.45	42.36	25.64
FULL CONTROL ACCESS	675	83.42	0.50	19.43	21.80	26.68	30.96
TOTAL	5,543	196.19	1.02	56.08	33.95	48.19	33.17

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES
* RATES WERE CALCULATED USING LESS THAN 100 SYSTEM MILES - USE WITH CAUTION

**2014-2018 Five Year Crash Rates
By Road System, Type and Control
Crash Rate per 100 Million Vehicle Miles Traveled**

RURAL NORTH CAROLINA ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	6,043	178.67	178.67	178.67	178.67	178.67	178.67
2 LANES CONT. LEFT TURN LANE *	9	221.21	221.21	221.21	221.21	221.21	221.21
3 LANES UNDIVIDED *	13	166.22	166.22	166.22	166.22	166.22	166.22
4 OR MORE LANES UNDIVIDED *	23	198.72	198.72	198.72	198.72	198.72	198.72
4 OR MORE LANES CONT. LEFT TURN LANE *	72	99.88	99.88	99.88	99.88	99.88	99.88
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	121	107.50	107.50	107.50	107.50	107.50	107.50
PARTIAL CONTROL ACCESS*	23	53.83	53.83	53.83	53.83	53.83	53.83
FULL CONTROL ACCESS*	22	20.24	20.24	20.24	20.24	20.24	20.24
TOTAL	6,326	167.44	1.85	50.82	26.67	61.68	59.94

URBAN NORTH CAROLINA ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	1,079	254.52	1.24	77.32	38.45	57.69	42.09
2 LANES CONT. LEFT TURN LANE *	38	221.06	0.79	64.49	34.29	43.71	26.91
3 LANES UNDIVIDED *	17	694.56	1.18	192.02	109.27	146.42	46.58
4 OR MORE LANES UNDIVIDED	133	554.94	1.29	166.93	87.95	110.85	39.38
4 OR MORE LANES CONT. LEFT TURN LANE	159	298.59	1.18	84.87	46.85	56.99	23.63
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	208	324.76	1.02	99.39	53.23	73.14	25.07
PARTIAL CONTROL ACCESS*	56	247.93	0.70	73.47	42.41	62.78	23.61
FULL CONTROL ACCESS*	52	109.08	0.50	25.39	19.64	23.48	19.60
TOTAL	1,742	296.64	1.11	88.51	46.82	64.49	33.24

ALL NORTH CAROLINA ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	7,122	204.29	1.76	62.31	31.90	63.56	58.15
2 LANES CONT. LEFT TURN LANE *	47	221.08	0.78	63.49	33.15	45.79	27.71
3 LANES UNDIVIDED *	30	563.15	1.48	158.14	90.36	120.34	50.20
4 OR MORE LANES UNDIVIDED	156	527.81	1.31	158.33	83.53	105.84	38.53
4 OR MORE LANES CONT. LEFT TURN LANE	231	253.27	1.13	71.61	39.59	50.99	22.06
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	329	281.17	0.99	85.47	45.84	66.39	25.16
PARTIAL CONTROL ACCESS*	79	211.51	0.65	62.52	35.90	54.88	21.61
FULL CONTROL ACCESS*	74	89.79	0.42	21.20	16.39	19.65	16.50
TOTAL	8,068	233.14	1.47	69.99	36.92	63.11	46.36

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES
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**2014-2018 Five Year Crash Rates
By Road System, Type and Control
Crash Rate per 100 Million Vehicle Miles Traveled**

RURAL PRIMARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	8,391	170.63	1.93	52.44	27.72	62.20	61.99
2 LANES CONT. LEFT TURN LANE *	32	135.19	2.10	41.28	23.79	33.58	37.25
3 LANES UNDIVIDED *	25	205.60	1.99	64.56	39.73	46.02	59.60
4 OR MORE LANES UNDIVIDED *	72	199.77	1.37	55.50	33.28	41.91	29.85
4 OR MORE LANES CONT. LEFT TURN LANE	184	112.64	0.94	33.21	18.77	32.85	20.53
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	503	92.62	0.75	25.65	15.06	34.44	25.40
PARTIAL CONTROL ACCESS	306	73.29	0.74	19.71	14.50	27.75	24.39
FULL CONTROL ACCESS	952	67.59	0.54	14.89	16.30	23.90	28.81
TOTAL	10,465	121.22	1.24	34.76	21.66	43.31	43.24

URBAN PRIMARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	1,671	255.24	1.21	77.56	39.86	56.58	42.21
2 LANES CONT. LEFT TURN LANE *	85	245.81	0.90	75.16	37.38	51.96	31.87
3 LANES UNDIVIDED *	46	674.03	1.42	185.16	107.98	141.14	55.23
4 OR MORE LANES UNDIVIDED	267	557.06	1.46	162.09	88.40	104.82	39.58
4 OR MORE LANES CONT. LEFT TURN LANE	418	315.84	1.39	91.82	50.02	58.66	23.75
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	577	318.70	0.96	91.95	50.07	69.12	24.28
PARTIAL CONTROL ACCESS	285	216.87	0.80	64.78	38.00	53.53	25.34
FULL CONTROL ACCESS	1,066	121.41	0.42	28.07	24.87	30.00	25.26
TOTAL	4,415	207.95	0.75	57.03	36.08	46.26	28.25

ALL PRIMARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	10,062	199.68	1.68	61.07	31.89	60.27	55.20
2 LANES CONT. LEFT TURN LANE	117	221.18	1.17	67.61	34.35	47.87	33.07
3 LANES UNDIVIDED *	71	591.32	1.52	163.86	95.93	124.34	56.00
4 OR MORE LANES UNDIVIDED	339	510.97	1.45	148.34	81.29	96.70	38.32
4 OR MORE LANES CONT. LEFT TURN LANE	602	269.26	1.28	78.39	42.86	52.74	23.01
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	1,080	248.95	0.89	71.49	39.27	58.42	24.63
PARTIAL CONTROL ACCESS	591	165.74	0.78	48.73	29.63	44.35	25.00
FULL CONTROL ACCESS	2,018	107.16	0.45	24.58	22.60	28.38	26.20
TOTAL	14,880	175.85	0.93	48.79	30.74	45.17	33.80

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES
* RATES WERE CALCULATED USING LESS THAN 100 SYSTEM MILES - USE WITH CAUTION

**2014-2018 Five Year Crash Rates
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Crash Rate per 100 Million Vehicle Miles Traveled**

RURAL SECONDARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	21,741	234.29	2.50	67.35	39.17	98.88	117.67
2 LANES CONT. LEFT TURN LANE *	6	102.74	0.00	30.10	18.68	34.25	19.72
3 LANES UNDIVIDED *	2	117.42	0.00	39.14	9.78	29.35	39.14
4 OR MORE LANES UNDIVIDED *	4	276.66	0.00	53.72	26.86	45.66	42.98
4 OR MORE LANES CONT. LEFT TURN LANE *	4	78.28	7.83	3.91	7.83	19.57	19.57
4 OR MORE LANES DIVIDED WITH							
NO CONTROL ACCESS*	9	333.41	0.00	68.13	62.33	76.83	75.38
PARTIAL CONTROL ACCESS*	0	0.00	0.00	0.00	0.00	0.00	0.00
FULL CONTROL ACCESS*	0	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	21,766	234.05	2.49	67.20	39.12	98.56	117.21

URBAN SECONDARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	5,948	253.94	1.13	75.31	42.37	66.13	64.46
2 LANES CONT. LEFT TURN LANE *	66	322.20	1.16	96.45	52.34	75.23	38.19
3 LANES UNDIVIDED *	51	788.07	1.19	207.29	112.98	152.04	67.11
4 OR MORE LANES UNDIVIDED	284	510.05	0.99	150.20	81.05	98.98	37.84
4 OR MORE LANES CONT. LEFT TURN LANE	167	457.13	1.22	137.08	74.77	87.53	30.47
4 OR MORE LANES DIVIDED WITH							
NO CONTROL ACCESS	200	357.68	0.74	104.97	59.84	79.05	30.37
PARTIAL CONTROL ACCESS*	37	245.04	0.85	76.40	42.54	57.41	27.86
FULL CONTROL ACCESS*	25	135.87	0.38	35.81	27.52	34.14	17.50
TOTAL	6,778	312.69	1.07	92.24	51.46	73.00	53.91

ALL SECONDARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	27,689	245.44	1.72	71.87	40.99	80.28	87.46
2 LANES CONT. LEFT TURN LANE *	72	307.92	1.08	92.13	50.15	72.56	36.99
3 LANES UNDIVIDED *	53	782.27	1.18	205.84	112.09	150.98	66.87
4 OR MORE LANES UNDIVIDED	288	509.08	0.98	149.80	80.82	98.76	37.86
4 OR MORE LANES CONT. LEFT TURN LANE	171	455.54	1.25	136.52	74.49	87.25	30.42
4 OR MORE LANES DIVIDED WITH							
NO CONTROL ACCESS	209	357.42	0.73	104.58	59.86	79.02	30.85
PARTIAL CONTROL ACCESS*	37	245.04	0.85	76.40	42.54	57.41	27.86
FULL CONTROL ACCESS*	25	135.87	0.38	35.81	27.52	34.14	17.50
TOTAL	28,544	286.39	1.54	83.86	47.33	81.55	75.08

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES
* RATES WERE CALCULATED USING LESS THAN 100 SYSTEM MILES - USE WITH CAUTION

Notes

- Starting with this edition (2014-2018), the crash rates use five years of crash data. Previous editions used three years.
- Changes in Urban/Rural Designation: Past editions of *NC Crash Rates* utilized information from the crash reports to determine the urban/rural designation, where the urban areas were defined as crashes reported as inside a municipal limit. The new approach is based on Federal Highway Administration (FHWA) guidelines which classify “urban” areas as places inside urbanized area boundaries where the population is greater than 5,000 persons. Crash rate users are encouraged to examine the roadway characteristics, surrounding population and land uses to determine if a roadway section is “urban”.
- No Rates for Non-system Roads: Past editions of *NC Crash Rates* included rates for non-state system routes. These rates have been dropped because NCDOT does not have adequate data for routes outside of the NCDOT roadway system to guarantee the accuracy of these rates.
- No Rates for Truck Crashes: Past editions of *NC Crash Rates* included a separate listing of crash rates for crashes involving trucks. After discussion with crash rate users it was decided to drop truck crash rates from the yearly update.
- Secondary Route Data: Due to roadway inventory policy changes, the rates for secondary routes are based only on secondary roads that are part of the routine traffic count program. Routes included in the routine program include roads classified as arterial or collector and approximately one-third of local roads.
- Mileposted Crash Data: The attached crash data is based on crashes that were successfully located and mileposted by the Traffic Engineering Accident Analysis System.