

North Carolina Department of Transportation
Transportation Mobility and Safety Division
Traffic Safety Unit
2016 ~ 2020 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	63.09	0.52	13.74	14.40	20.74	24.05	4.38
	URBAN	127.51	0.41	28.61	25.92	31.46	24.62	3.42
	STATE-WIDE	111.80	0.44	24.98	23.11	28.84	24.48	3.55
US ROUTES	RURAL	109.19	1.17	30.44	20.80	38.44	36.72	5.51
	URBAN	253.85	0.95	69.61	41.46	53.93	29.37	3.88
	STATE-WIDE	193.35	1.04	53.23	32.82	47.46	32.44	4.27
NC ROUTES	RURAL	163.52	1.91	48.03	25.63	59.82	57.90	5.91
	URBAN	287.36	1.06	81.84	44.06	63.52	32.01	3.98
	STATE-WIDE	226.76	1.48	65.30	35.04	61.71	44.68	4.66
PRIMARY	RURAL	116.28	1.26	32.30	20.86	41.34	40.79	5.55
	URBAN	203.80	0.73	53.65	34.98	45.79	27.77	3.78
	STATE-WIDE	171.32	0.93	45.73	29.75	44.14	32.61	4.23
SECONDARY ROAD	RURAL	239.29	2.60	65.84	38.76	99.81	118.15	5.67
	URBAN	303.62	1.10	86.13	47.79	71.36	51.81	4.05
	STATE-WIDE	283.05	1.58	79.64	44.90	80.45	73.02	4.49
STATEWIDE ALL SYSTEM ROUTES	RURAL	143.37	1.56	39.68	24.81	54.22	57.83	5.59
	URBAN	229.93	0.83	62.15	38.34	52.48	34.07	3.87
	STATE-WIDE	198.91	1.09	54.10	33.49	53.10	42.58	4.32

(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.

**2016-2020 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							
TOTAL	559	63.09	0.52	13.74	14.40	20.74	24.05

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							
TOTAL	790	127.51	0.41	28.61	25.92	31.46	24.62

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							
TOTAL	1,349	111.80	0.44	24.98	23.11	28.84	24.48

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES

**2016-2020 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	2,337	152.30	1.89	46.35	25.24	52.81	51.97
2 LANES CONT. LEFT TURN LANE *	25	105.30	2.71	35.93	21.01	25.99	36.15
3 LANES UNDIVIDED *	16	216.26	1.90	61.52	38.05	38.05	49.47
4 OR MORE LANES UNDIVIDED *	51	195.76	1.18	55.20	30.36	39.62	30.06
4 OR MORE LANES CONT. LEFT TURN LANE	114	117.44	1.30	36.21	20.23	33.48	23.09
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	383	89.91	0.80	24.19	14.58	32.88	24.67
PARTIAL CONTROL ACCESS	284	74.05	0.77	18.58	15.75	27.73	24.40
FULL CONTROL ACCESS	393	68.67	0.49	13.92	20.99	28.41	33.42
TOTAL	3,603	109.19	1.17	30.44	20.80	64.07	61.20

URBAN UNITED STATES ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	588	269.47	1.39	77.25	43.52	58.71	45.35
2 LANES CONT. LEFT TURN LANE *	46	273.00	0.88	84.71	38.82	61.24	35.21
3 LANES UNDIVIDED *	30	611.08	2.08	162.20	94.30	125.57	55.79
4 OR MORE LANES UNDIVIDED	134	576.23	1.47	157.54	88.34	104.40	42.32
4 OR MORE LANES CONT. LEFT TURN LANE	267	310.26	1.31	87.53	47.26	55.89	23.76
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	375	314.37	0.90	84.01	46.09	66.55	23.66
PARTIAL CONTROL ACCESS	241	205.84	0.83	60.80	34.53	49.79	24.09
FULL CONTROL ACCESS	311	91.77	0.44	21.15	23.47	24.90	27.58
TOTAL	1,992	253.85	0.95	69.61	41.46	53.93	29.37

ALL UNITED STATES ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	2,925	192.60	1.71	56.98	31.53	54.84	49.69
2 LANES CONT. LEFT TURN LANE *	71	225.90	1.40	71.01	33.82	51.34	35.47
3 LANES UNDIVIDED *	46	557.64	2.06	148.57	86.69	113.73	54.93
4 OR MORE LANES UNDIVIDED	185	508.63	1.42	139.36	78.04	92.89	40.14
4 OR MORE LANES CONT. LEFT TURN LANE	381	267.08	1.31	76.04	41.21	50.87	23.61
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	758	233.81	0.86	62.54	34.78	54.47	24.02
PARTIAL CONTROL ACCESS	525	154.43	0.81	44.33	27.20	41.19	24.21
FULL CONTROL ACCESS	704	82.50	0.46	18.25	22.48	26.31	29.92
TOTAL	5,595	193.35	1.04	53.23	32.82	47.46	32.44

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

**2016-2020 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	6,034	175.77	2.09	51.95	27.62	64.91	64.49
2 LANES CONT. LEFT TURN LANE *	12	170.24	1.49	40.20	21.34	42.68	30.77
3 LANES UNDIVIDED *	13	138.25	3.37	41.59	24.73	32.03	44.96
4 OR MORE LANES UNDIVIDED *	23	199.10	1.99	50.77	26.38	47.65	33.18
4 OR MORE LANES CONT. LEFT TURN LANE *	72	93.43	0.77	25.61	14.55	28.74	15.79
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	139	103.43	0.87	28.68	15.55	38.84	26.40
PARTIAL CONTROL ACCESS*	23	54.36	0.68	16.57	8.76	21.77	12.32
FULL CONTROL ACCESS*	21	25.85	0.24	7.44	5.97	7.56	6.34
TOTAL	6,337	163.52	1.91	48.03	25.63	59.82	57.90

URBAN NORTH CAROLINA ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	1,068	253.94	1.06	74.28	37.80	58.12	41.46
2 LANES CONT. LEFT TURN LANE *	46	217.12	0.99	61.00	31.04	46.20	29.42
3 LANES UNDIVIDED *	17	720.47	1.49	190.23	108.81	153.52	51.42
4 OR MORE LANES UNDIVIDED	131	549.46	1.47	158.00	83.56	109.58	38.50
4 OR MORE LANES CONT. LEFT TURN LANE	156	266.67	1.20	71.18	39.64	52.64	20.98
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	222	314.94	1.13	91.83	49.62	72.28	23.86
PARTIAL CONTROL ACCESS*	56	247.30	0.56	69.25	42.11	64.76	24.30
FULL CONTROL ACCESS*	53	97.96	0.50	20.26	17.89	20.53	17.89
TOTAL	1,749	287.36	1.06	81.84	44.06	63.52	32.01

ALL NORTH CAROLINA ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	7,102	201.88	1.75	59.41	31.02	62.65	56.80
2 LANES CONT. LEFT TURN LANE *	58	209.91	1.07	57.80	29.55	45.66	29.63
3 LANES UNDIVIDED *	30	575.51	1.96	153.22	87.87	123.27	49.81
4 OR MORE LANES UNDIVIDED	154	522.51	1.51	149.75	79.16	104.82	38.09
4 OR MORE LANES CONT. LEFT TURN LANE	228	224.75	1.09	60.16	33.57	46.86	19.72
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	361	270.56	1.08	78.58	42.47	65.26	24.39
PARTIAL CONTROL ACCESS*	79	209.77	0.59	59.01	35.63	56.40	21.97
FULL CONTROL ACCESS*	74	83.87	0.45	17.76	15.56	17.99	15.63
TOTAL	8,086	226.76	1.48	65.30	35.04	61.71	44.68

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES
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**2016-2020 Five Year Crash Rates
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RURAL PRIMARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	8,371	167.78	2.02	50.04	26.81	60.79	60.23
2 LANES CONT. LEFT TURN LANE *	37	125.61	2.33	37.26	21.12	31.21	34.47
3 LANES UNDIVIDED *	29	174.90	2.68	50.95	30.99	34.86	47.08
4 OR MORE LANES UNDIVIDED *	74	196.62	1.39	54.06	29.33	41.69	30.87
4 OR MORE LANES CONT. LEFT TURN LANE	186	108.14	1.09	32.11	18.03	31.65	20.26
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	522	92.76	0.82	25.13	14.78	34.13	25.03
PARTIAL CONTROL ACCESS	307	72.38	0.77	18.41	15.16	27.23	23.37
FULL CONTROL ACCESS	973	63.99	0.51	13.68	16.07	22.63	26.32
TOTAL	10,499	116.28	1.26	32.30	20.86	41.34	40.79

URBAN PRIMARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	1,656	259.38	1.17	75.32	39.80	58.33	42.82
2 LANES CONT. LEFT TURN LANE *	92	245.38	0.94	72.99	34.98	53.80	32.34
3 LANES UNDIVIDED *	47	649.10	1.88	171.94	99.34	135.29	54.27
4 OR MORE LANES UNDIVIDED	265	563.54	1.47	157.76	86.08	106.86	40.51
4 OR MORE LANES CONT. LEFT TURN LANE	423	294.42	1.27	81.59	44.49	54.71	22.75
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	597	314.57	0.98	86.83	47.36	68.62	23.73
PARTIAL CONTROL ACCESS	297	214.02	0.78	62.47	36.02	52.74	24.13
FULL CONTROL ACCESS	1,154	121.24	0.42	27.24	25.33	30.16	24.90
TOTAL	4,531	203.80	0.73	53.65	34.98	45.79	27.77

ALL PRIMARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	10,027	198.69	1.74	58.57	31.19	59.96	54.35
2 LANES CONT. LEFT TURN LANE	129	218.64	1.25	65.01	31.88	48.76	32.82
3 LANES UNDIVIDED *	76	564.44	2.02	150.34	87.14	117.36	52.99
4 OR MORE LANES UNDIVIDED	339	514.81	1.46	143.99	78.54	98.20	39.23
4 OR MORE LANES CONT. LEFT TURN LANE	609	251.47	1.23	70.18	38.39	49.39	22.17
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	1,119	245.34	0.93	67.57	37.19	57.85	24.14
PARTIAL CONTROL ACCESS	604	163.11	0.77	46.63	28.52	43.57	23.86
FULL CONTROL ACCESS	2,127	105.65	0.44	23.55	22.81	28.11	25.28
TOTAL	15,030	171.32	0.93	45.73	29.75	44.14	32.61

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES
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RURAL SECONDARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	21,029	239.72	2.62	66.02	38.87	100.29	118.89
2 LANES CONT. LEFT TURN LANE *	6	118.03	0.00	33.60	17.23	33.60	19.82
3 LANES UNDIVIDED *	2	131.51	10.96	54.79	21.92	43.84	43.84
4 OR MORE LANES UNDIVIDED *	4	221.29	0.00	44.78	28.98	55.32	31.61
4 OR MORE LANES CONT. LEFT TURN LANE *	4	106.54	0.00	19.03	15.22	34.25	15.22
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS*	14	256.65	0.00	57.75	34.65	54.54	51.97
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	21,059	239.29	2.60	65.84	38.76	99.81	118.15

URBAN SECONDARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	5,866	256.07	1.13	72.92	41.16	66.78	62.73
2 LANES CONT. LEFT TURN LANE *	69	295.95	0.64	84.73	47.86	67.43	35.74
3 LANES UNDIVIDED *	53	640.44	1.74	158.00	85.71	122.41	59.35
4 OR MORE LANES UNDIVIDED	276	498.72	1.27	142.92	76.52	98.07	37.48
4 OR MORE LANES CONT. LEFT TURN LANE	168	438.51	1.41	127.71	66.42	84.16	30.22
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	240	320.81	0.81	89.38	50.14	71.52	27.96
PARTIAL CONTROL ACCESS*	39	213.46	0.60	61.57	34.67	46.37	17.97
FULL CONTROL ACCESS*	25	126.73	0.40	32.17	22.42	30.46	15.08
TOTAL	6,736	303.62	1.10	86.13	47.79	71.36	51.81

ALL SECONDARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	26,895	249.24	1.75	70.04	40.21	80.77	86.18
2 LANES CONT. LEFT TURN LANE *	75	282.42	0.59	80.84	45.53	64.86	34.53
3 LANES UNDIVIDED *	55	636.80	1.80	157.26	85.25	121.84	59.24
4 OR MORE LANES UNDIVIDED	280	497.50	1.26	142.49	76.31	97.88	37.45
4 OR MORE LANES CONT. LEFT TURN LANE	172	437.07	1.40	127.24	66.20	83.94	30.15
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	254	319.57	0.80	88.77	49.84	71.20	28.42
PARTIAL CONTROL ACCESS*	39	213.46	0.60	61.57	34.67	46.37	17.97
FULL CONTROL ACCESS*	25	126.73	0.40	32.17	22.42	30.46	15.08
TOTAL	27,795	283.05	1.58	79.64	44.90	80.45	73.02

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