

North Carolina Department of Transportation
Transportation Mobility and Safety Division
Traffic Safety Unit
2012 ~ 2014 Three 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	55.94	0.52	11.91	13.44	18.81	24.41	3.78
	URBAN	94.94	0.30	23.10	22.08	24.24	21.57	3.35
	STATE-WIDE	85.41	0.36	20.37	19.97	22.91	22.26	3.42
US ROUTES	RURAL	104.75	1.09	29.52	19.47	39.28	34.72	4.77
	URBAN	218.87	0.94	66.88	39.21	47.70	26.14	3.95
	STATE-WIDE	173.34	1.00	51.97	31.33	44.34	29.56	4.15
NC ROUTES	RURAL	159.74	1.67	47.88	25.24	63.38	55.73	4.98
	URBAN	259.47	1.02	81.32	43.21	58.28	30.87	4.04
	STATE-WIDE	210.30	1.34	64.83	34.35	60.79	43.12	4.39
PRIMARY	RURAL	113.09	1.17	32.00	20.13	43.14	39.84	4.76
	URBAN	175.51	0.69	51.58	32.87	40.12	25.24	3.84
	STATE-WIDE	152.41	0.87	44.34	28.16	41.24	30.64	4.09
SECONDARY ROAD	RURAL	247.22	2.57	70.26	40.38	111.49	117.19	4.74
	URBAN	283.35	1.07	87.82	48.02	68.53	51.08	4.02
	STATE-WIDE	271.15	1.57	81.89	45.44	83.03	73.39	4.24
STATEWIDE ALL SYSTEM ROUTES	RURAL	144.64	1.50	41.00	24.90	59.22	58.03	4.75
	URBAN	203.73	0.79	61.07	36.83	47.55	32.00	3.90
	STATE-WIDE	182.35	1.05	53.81	32.51	51.77	41.42	4.15

(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.

**2012-2014 Three 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+ LANES CONT. LEFT TURN LANE							
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS							
PARTIAL CONTROL ACCESS							
FULL CONTROL ACCESS							
TOTAL	543	55.94	0.52	11.91	13.44	18.81	24.41

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+ LANES CONT. LEFT TURN LANE							
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS							
PARTIAL CONTROL ACCESS							
FULL CONTROL ACCESS							
TOTAL	706	94.94	0.30	23.10	22.08	24.24	21.57

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+ LANES CONT. LEFT TURN LANE							
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS							
PARTIAL CONTROL ACCESS							
FULL CONTROL ACCESS							
TOTAL	1,249	85.41	0.36	20.37	19.97	22.91	22.26

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES

**2012-2014 Three 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	2,393	143.51	1.62	43.34	23.91	54.13	47.62
2 LANES CONT. LEFT TURN LANE *	22	100.55	0.00	29.98	22.14	22.60	39.20
3 LANES UNDIVIDED *	12	244.91	1.38	77.49	40.13	51.20	59.50
4 OR MORE LANES UNDIVIDED *	62	166.94	0.61	47.10	30.53	33.14	29.15
4+ LANES CONT. LEFT TURN LANE	111	109.42	1.20	31.90	18.92	32.85	19.81
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	368	83.33	0.90	23.80	13.90	32.26	22.37
PARTIAL CONTROL ACCESS	238	64.28	0.62	17.52	12.73	26.06	21.71
FULL CONTROL ACCESS	378	61.36	0.56	11.33	18.01	26.71	31.59
TOTAL	3,584	104.75	1.09	29.52	19.47	39.28	34.72

URBAN UNITED STATES ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	614	230.33	1.18	72.76	39.35	49.13	38.43
2 LANES CONT. LEFT TURN LANE *	50	235.11	1.02	76.71	40.33	48.07	33.02
3 LANES UNDIVIDED *	29	499.99	1.16	141.03	81.14	107.61	39.41
4 OR MORE LANES UNDIVIDED	137	448.75	1.28	140.54	78.12	79.96	36.77
4+ LANES CONT. LEFT TURN LANE	268	279.51	1.32	90.26	46.54	51.76	19.16
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	370	283.91	0.92	85.62	48.33	63.28	22.87
PARTIAL CONTROL ACCESS	223	172.26	1.06	53.60	34.02	43.74	23.54
FULL CONTROL ACCESS	313	74.85	0.47	18.83	18.07	21.72	23.39
TOTAL	2,004	218.87	0.94	66.88	39.21	47.70	26.14

ALL UNITED STATES ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	3,007	174.43	1.46	53.81	29.41	52.35	44.35
2 LANES CONT. LEFT TURN LANE *	72	202.73	0.78	65.47	35.95	41.94	34.51
3 LANES UNDIVIDED *	41	468.74	1.19	133.25	76.12	100.70	41.87
4 OR MORE LANES UNDIVIDED	199	394.44	1.15	122.53	68.95	70.93	35.30
4+ LANES CONT. LEFT TURN LANE	379	243.29	1.29	77.83	40.66	47.74	19.30
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	738	216.07	0.91	64.71	36.68	52.79	22.70
PARTIAL CONTROL ACCESS	461	134.01	0.91	40.82	26.48	37.48	22.90
FULL CONTROL ACCESS	691	70.04	0.50	16.16	18.04	23.49	26.31
TOTAL	5,588	173.34	1.00	51.97	31.33	44.34	29.56

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES
* RATES ARE NOT STATISTICALLY SIGNIFICANT

**2012-2014 Three 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	6,091	169.17	1.81	51.02	26.76	67.80	60.99
2 LANES CONT. LEFT TURN LANE *	9	208.91	0.00	56.11	22.68	48.94	35.81
3 LANES UNDIVIDED *	13	148.06	0.00	36.75	25.94	34.58	49.71
4 OR MORE LANES UNDIVIDED *	24	152.68	0.95	45.19	22.83	34.72	20.93
4+ LANES CONT. LEFT TURN LANE *	72	96.04	1.51	22.95	16.11	30.50	17.11
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	126	88.72	0.21	27.67	13.59	37.15	19.10
PARTIAL CONTROL ACCESS*	17	55.23	1.51	11.05	5.52	24.60	19.58
FULL CONTROL ACCESS*	14	36.36	0.00	10.16	9.09	13.37	11.76
TOTAL	6,366	159.74	1.67	47.88	25.24	63.38	55.73

URBAN NORTH CAROLINA ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	1,087	230.09	1.23	73.59	36.46	56.10	39.24
2 LANES CONT. LEFT TURN LANE *	42	214.09	0.50	74.10	30.44	41.48	24.25
3 LANES UNDIVIDED *	17	630.06	2.13	184.64	106.73	123.81	43.05
4 OR MORE LANES UNDIVIDED	134	464.98	1.17	146.88	77.60	92.07	34.66
4+ LANES CONT. LEFT TURN LANE	158	262.59	0.99	77.54	41.30	52.26	23.57
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	209	264.81	0.75	83.15	46.86	59.66	22.18
PARTIAL CONTROL ACCESS*	53	216.59	1.01	71.08	41.87	56.89	21.86
FULL CONTROL ACCESS*	43	89.76	0.16	20.70	19.77	19.07	20.08
TOTAL	1,743	259.47	1.02	81.32	43.21	58.28	30.87

ALL NORTH CAROLINA ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	7,178	189.41	1.62	58.52	29.98	63.91	53.76
2 LANES CONT. LEFT TURN LANE *	51	213.46	0.44	71.89	29.49	42.40	25.67
3 LANES UNDIVIDED *	30	510.69	1.61	148.01	86.72	101.71	44.70
4 OR MORE LANES UNDIVIDED	158	439.75	1.15	138.67	73.18	87.43	33.55
4+ LANES CONT. LEFT TURN LANE	230	224.40	1.11	65.02	35.52	47.27	22.09
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	335	228.34	0.64	71.66	39.97	55.00	21.54
PARTIAL CONTROL ACCESS*	70	198.51	1.07	64.35	37.80	53.27	21.60
FULL CONTROL ACCESS*	57	83.00	0.14	19.36	18.41	18.35	19.02
TOTAL	8,109	210.30	1.34	64.83	34.35	60.79	43.12

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**2012-2014 Three 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	8,484	160.22	1.74	48.34	25.77	63.03	56.33
2 LANES CONT. LEFT TURN LANE *	31	130.75	0.00	37.26	22.29	29.94	38.26
3 LANES UNDIVIDED *	25	190.54	0.61	54.61	32.16	41.87	54.01
4 OR MORE LANES UNDIVIDED *	86	163.46	0.70	46.64	28.65	33.53	27.15
4+ LANES CONT. LEFT TURN LANE	183	104.26	1.32	28.44	17.84	31.94	18.77
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	494	84.49	0.75	24.64	13.83	33.31	21.67
PARTIAL CONTROL ACCESS	255	63.77	0.67	17.16	12.33	25.98	21.59
FULL CONTROL ACCESS	935	57.25	0.53	11.74	14.64	20.90	26.25
TOTAL	10,493	113.09	1.17	32.00	20.13	43.14	39.84

URBAN PRIMARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	1,701	230.18	1.21	73.28	37.54	53.50	38.94
2 LANES CONT. LEFT TURN LANE *	92	225.31	0.78	75.49	35.72	45.00	28.93
3 LANES UNDIVIDED *	46	545.77	1.50	156.38	90.15	113.31	40.69
4 OR MORE LANES UNDIVIDED	271	456.33	1.23	143.50	77.88	85.61	35.79
4+ LANES CONT. LEFT TURN LANE	426	273.35	1.20	85.63	44.63	51.94	20.76
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	579	277.25	0.86	84.76	47.82	62.02	22.63
PARTIAL CONTROL ACCESS	276	181.34	1.05	57.18	35.63	46.43	23.20
FULL CONTROL ACCESS	1,062	91.30	0.33	22.30	21.33	23.69	21.86
TOTAL	4,453	175.51	0.69	51.58	32.87	40.12	25.24

ALL PRIMARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	10,185	184.06	1.56	56.84	29.78	59.78	50.40
2 LANES CONT. LEFT TURN LANE	123	207.35	0.63	68.23	33.17	42.14	30.70
3 LANES UNDIVIDED *	71	485.01	1.35	138.97	80.23	101.09	42.97
4 OR MORE LANES UNDIVIDED	357	414.14	1.15	129.55	70.79	78.11	34.54
4+ LANES CONT. LEFT TURN LANE	609	236.33	1.23	73.11	38.77	47.56	20.33
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	1,073	219.86	0.83	66.86	37.70	53.47	22.34
PARTIAL CONTROL ACCESS	531	144.19	0.93	44.53	28.26	39.97	22.69
FULL CONTROL ACCESS	1,997	82.28	0.38	19.50	19.55	22.95	23.02
TOTAL	14,946	152.41	0.87	44.34	28.16	41.24	30.64

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**2012-2014 Three Year Crash Rates
By Road System, Type and Control
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	21,843	248.47	2.59	70.65	40.62	112.23	118.03
2 LANES CONT. LEFT TURN LANE *	5	95.38	0.00	34.50	12.18	40.59	10.15
3 LANES UNDIVIDED *	2	228.31	17.56	35.12	35.12	52.69	87.81
4 OR MORE LANES UNDIVIDED *	4	194.49	0.00	42.28	16.91	29.60	42.28
4+ LANES CONT. LEFT TURN LANE *	4	76.10	0.00	0.00	0.00	25.37	19.03
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS*	8	220.35	0.00	53.10	34.51	55.75	47.79
PARTIAL CONTROL ACCESS*	0	0.00	0.00	0.00	0.00	0.00	0.00
FULL CONTROL ACCESS*	5	0.00	0.00	0.00	0.00	0.00	0.00
TOTAL	21,871	247.22	2.57	70.26	40.38	111.49	117.19

URBAN SECONDARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	5,903	233.15	1.18	72.80	39.36	62.56	61.11
2 LANES CONT. LEFT TURN LANE *	64	319.33	1.11	102.80	54.58	69.13	38.51
3 LANES UNDIVIDED *	51	716.57	1.67	195.76	111.08	145.68	57.97
4 OR MORE LANES UNDIVIDED	284	453.38	0.72	141.22	76.08	90.47	36.92
4+ LANES CONT. LEFT TURN LANE	171	403.26	1.14	125.92	68.71	82.19	29.19
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	182	306.09	0.76	93.72	53.70	70.89	27.20
PARTIAL CONTROL ACCESS*	36	197.48	0.66	62.22	33.68	53.80	24.17
FULL CONTROL ACCESS*	26	110.99	0.22	29.73	26.10	31.16	22.13
TOTAL	6,717	283.35	1.07	87.82	48.02	68.53	51.08

ALL SECONDARY ROUTES

ROAD TYPE	SYSTEM MILES	TOTAL	FATAL	NON-FATAL INJURY	WET	NIGHT	RUN OFF ROAD
2 LANES UNDIVIDED	27,746	239.84	1.79	71.86	39.91	84.23	85.95
2 LANES CONT. LEFT TURN LANE *	69	305.02	1.04	98.43	51.87	67.31	36.70
3 LANES UNDIVIDED *	53	712.39	1.81	194.38	110.43	144.89	58.22
4 OR MORE LANES UNDIVIDED	288	452.13	0.72	140.74	75.80	90.18	36.94
4+ LANES CONT. LEFT TURN LANE	175	401.79	1.14	125.35	68.41	81.94	29.14
4 OR MORE LANES DIVIDED WITH NO CONTROL ACCESS	190	305.11	0.76	93.25	53.48	70.72	27.43
PARTIAL CONTROL ACCESS*	36	197.48	0.66	62.22	33.68	53.80	24.17
FULL CONTROL ACCESS*	31	104.26	0.21	27.93	24.51	29.27	20.79
TOTAL	28,588	271.15	1.57	81.89	45.44	83.03	73.39

NOTE: INCLUDES ONLY ROUTE SEGMENTS WITH COMPUTERIZED TRAFFIC VOLUMES
* RATES ARE NOT STATISTICALLY SIGNIFICANT

Notes

We have made several changes in the *NC Crash Rates*, starting with the 2010-2012 edition. These changes are described below:

- Format Improvements: We have changed the format to make the data easier to read. To help improve readability we removed some of the background data from the tables that follow. Contact us if you need any of the background data that we utilized to calculate the crash rates.
- 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.