

**North Carolina Department of Transportation
Traffic Engineering Accident Analysis System
Strip Analysis Report**

Study Criteria Summary

County: WAKE **City:** All and Rural
Date: 03/01/2013 to 02/28/2018 **Study:** I5870I
Location: I-440 EB Off Ramp from Ridge Rd to I-440 EB Ramp diverge

Report Details

Acc No	Crash ID	Milepost	Date	Accident Type	Total Damage	Injuries				Condition			Road		Trfc Ctl	
						F	A	B	C	R	L	W	Ch	Ci	Dv	Op
1	103707910	0.000	03/21/2013 15:50	ANGLE	\$ 15000	0	0	2	1	1	1	1	3	0	1	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 0 MPH Dir: W		Veh Mnvr/Ped Actn: 8				Obj Strk:						
Unit	2 : 1	Alchl/Drgs:	0	Speed: 30 MPH Dir: N		Veh Mnvr/Ped Actn: 4				Obj Strk:						
2	103731838	0.000	04/19/2013 18:36	LEFT TURN, DIFFERENT ROADWAYS	\$ 2000	0	0	0	0	1	1	2	1	0	1	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 35 MPH Dir: W		Veh Mnvr/Ped Actn: 8				Obj Strk:						
Unit	2 : 4	Alchl/Drgs:	0	Speed: 35 MPH Dir: N		Veh Mnvr/Ped Actn: 4				Obj Strk:						
3	103762280	0.000	05/29/2013 09:04	SIDESWIPE, SAME DIRECTION	\$ 1300	0	0	0	0	1	1	1	5	0	1	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 35 MPH Dir: SW		Veh Mnvr/Ped Actn: 1				Obj Strk:						
Unit	2 : 2	Alchl/Drgs:	0	Speed: 50 MPH Dir: S		Veh Mnvr/Ped Actn: 4				Obj Strk:						
4	103832952	0.000	08/24/2013 12:24	LEFT TURN, DIFFERENT ROADWAYS	\$ 4500	0	0	0	0	1	1	1	1	0	1	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 30 MPH Dir: N		Veh Mnvr/Ped Actn: 4				Obj Strk:						
Unit	2 : 1	Alchl/Drgs:	0	Speed: 20 MPH Dir: SW		Veh Mnvr/Ped Actn: 8				Obj Strk:						
5	104191044	0.000	10/23/2014 16:25	LEFT TURN, DIFFERENT ROADWAYS	\$ 7000	0	0	0	0	1	1	1	3	0	1	1
Unit	1 : 4	Alchl/Drgs:	0	Speed: 5 MPH Dir: S		Veh Mnvr/Ped Actn: 8				Obj Strk:						
Unit	2 : 4	Alchl/Drgs:	0	Speed: 35 MPH Dir: N		Veh Mnvr/Ped Actn: 4				Obj Strk:						
6	104356439	0.000	04/22/2015 12:22	ANGLE	\$ 5000	0	0	0	0	1	1	1	1	0	3	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 35 MPH Dir: S		Veh Mnvr/Ped Actn: 8				Obj Strk:						
Unit	2 : 4	Alchl/Drgs:	0	Speed: 30 MPH Dir: S		Veh Mnvr/Ped Actn: 4				Obj Strk:						
7	104406822	0.000	06/13/2015 15:51	LEFT TURN, SAME ROADWAY	\$ 5000	0	0	0	0	1	1	2	3	0	1	1
Unit	1 : 4	Alchl/Drgs:	0	Speed: 15 MPH Dir: S		Veh Mnvr/Ped Actn: 8				Obj Strk:						
Unit	2 : 2	Alchl/Drgs:	0	Speed: 35 MPH Dir: S		Veh Mnvr/Ped Actn: 4				Obj Strk:						
8	104427795	0.000	07/08/2015 15:31	LEFT TURN, DIFFERENT ROADWAYS	\$ 2000	0	0	0	0	1	1	1	7	0	1	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 0 MPH Dir: S		Veh Mnvr/Ped Actn: 8				Obj Strk:						
Unit	2 : 1	Alchl/Drgs:	0	Speed: 35 MPH Dir: N		Veh Mnvr/Ped Actn: 4				Obj Strk:						

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						F	A	B	C	R	L	W	Ch	Ci	Dv	Op
9	104457232	0.000	08/11/2015 15:20	LEFT TURN, SAME ROADWAY	\$ 6000	0	0	0	0	1	1	2	5	0	1	1
Unit	1 : 4	Alchl/Drgs:	0	Speed: 5 MPH Dir: S		Veh Mnvr/Ped Actn:				8	Obj Strk:					
Unit	2 : 20	Alchl/Drgs:	0	Speed: 15 MPH Dir: N		Veh Mnvr/Ped Actn:				4	Obj Strk:					
10	104464701	0.000	08/20/2015 09:40	SIDESWIPE, SAME DIRECTION	\$ 2000	0	0	0	0	1	1	1	5	0	1	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 10 MPH Dir: S		Veh Mnvr/Ped Actn:				4	Obj Strk:					
Unit	2 : 4	Alchl/Drgs:	0	Speed: 25 MPH Dir: SE		Veh Mnvr/Ped Actn:				4	Obj Strk:					
11	104501679	0.000	09/28/2015 16:27	SIDESWIPE, SAME DIRECTION	\$ 6000	0	0	0	0	2	1	2	1	0	3	1
Unit	1 : 4	Alchl/Drgs:	0	Speed: 15 MPH Dir: S		Veh Mnvr/Ped Actn:				8	Obj Strk:					
Unit	2 : 1	Alchl/Drgs:	0	Speed: 35 MPH Dir: S		Veh Mnvr/Ped Actn:				4	Obj Strk:					
12	104532976	0.000	10/26/2015 13:11	LEFT TURN, DIFFERENT ROADWAYS	\$ 1300	0	0	0	0	1	1	2	1	0	1	
Unit	1 : 10	Alchl/Drgs:	0	Speed: 3 MPH Dir: SW		Veh Mnvr/Ped Actn:				8	Obj Strk:					
Unit	2 : 5	Alchl/Drgs:	0	Speed: 35 MPH Dir: NW		Veh Mnvr/Ped Actn:				4	Obj Strk:					
13	104545386	0.000	11/07/2015 10:29	REAR END, SLOW OR STOP	\$ 1700	0	0	0	0	2	1	3	3	0	0	
Unit	1 : 4	Alchl/Drgs:	0	Speed: 10 MPH Dir: N		Veh Mnvr/Ped Actn:				4	Obj Strk:					
Unit	2 : 1	Alchl/Drgs:	0	Speed: 0 MPH Dir: N		Veh Mnvr/Ped Actn:				1	Obj Strk:					
14	104666310	0.000	03/04/2016 16:56	ANGLE	\$ 16500	0	0	0	0	1	1	1	3	0	1	1
Unit	1 : 2	Alchl/Drgs:	0	Speed: 25 MPH Dir: N		Veh Mnvr/Ped Actn:				4	Obj Strk:					
Unit	2 : 1	Alchl/Drgs:	0	Speed: 10 MPH Dir: W		Veh Mnvr/Ped Actn:				8	Obj Strk:					
15	104766861	0.000	06/17/2016 10:03	LEFT TURN, DIFFERENT ROADWAYS	\$ 4500	0	0	0	2	1	1	1	1	0	1	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 15 MPH Dir: W		Veh Mnvr/Ped Actn:				8	Obj Strk:					
Unit	2 : 4	Alchl/Drgs:	0	Speed: 35 MPH Dir: N		Veh Mnvr/Ped Actn:				4	Obj Strk:					
16	104773520	0.000	06/24/2016 15:58	SIDESWIPE, SAME DIRECTION	\$ 1000	0	0	0	0	1	1	1	3	0	1	1
Unit	1 : 5	Alchl/Drgs:	0	Speed: 30 MPH Dir: S		Veh Mnvr/Ped Actn:				8	Obj Strk:					
Unit	2 : 5	Alchl/Drgs:	0	Speed: 35 MPH Dir: W		Veh Mnvr/Ped Actn:				4	Obj Strk:					
17	104903285	0.000	11/07/2016 09:19	ANGLE	\$ 2700	0	0	0	0	1	1	1	1	0	1	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 0 MPH Dir: SW		Veh Mnvr/Ped Actn:				8	Obj Strk:					
Unit	2 : 1	Alchl/Drgs:	0	Speed: 35 MPH Dir: SE		Veh Mnvr/Ped Actn:				4	Obj Strk:					

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						F	A	B	C	R	L	W	Ch	Ci	Dv	Op
18	104976003	0.000	01/14/2017 10:20	LEFT TURN, DIFFERENT ROADWAYS	\$ 1250	0	0	0	0	1	1	2	3	0	1	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 0 MPH	Dir: SW	Veh Mnvr/Ped Actn: 8		Obj Strk:									
Unit	2 : 1	Alchl/Drgs: 0	Speed: 35 MPH	Dir: N	Veh Mnvr/Ped Actn: 4		Obj Strk:									
19	104986465	0.000	01/25/2017 08:21	LEFT TURN, SAME ROADWAY	\$ 4500	0	0	0	0	1	1	1	3	0	1	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 5 MPH	Dir: SW	Veh Mnvr/Ped Actn: 8		Obj Strk:									
Unit	2 : 4	Alchl/Drgs: 0	Speed: 25 MPH	Dir: NW	Veh Mnvr/Ped Actn: 4		Obj Strk:									
20	105121899	0.000	06/05/2017 16:42	SIDESWIPE, SAME DIRECTION	\$ 4000	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 1	Alchl/Drgs: 0	Speed: 35 MPH	Dir: N	Veh Mnvr/Ped Actn: 4		Obj Strk:									
Unit	2 : 2	Alchl/Drgs: 0	Speed: 35 MPH	Dir: N	Veh Mnvr/Ped Actn: 8		Obj Strk:									
21	105292369	0.000	11/17/2017 18:25	LEFT TURN, DIFFERENT ROADWAYS	\$ 2000	0	0	0	0	1	5	1	5	0	1	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 10 MPH	Dir: SW	Veh Mnvr/Ped Actn: 8		Obj Strk:									
Unit	2 : 1	Alchl/Drgs: 0	Speed: 35 MPH	Dir: S	Veh Mnvr/Ped Actn: 4		Obj Strk:									
22	105361496	0.000	01/24/2018 18:16	ANGLE	\$ 1700	0	0	0	0	1	5	1	1	0	1	1
Unit	1 : 32	Alchl/Drgs: 7	Speed: 35 MPH	Dir: E	Veh Mnvr/Ped Actn: 8		Obj Strk:									
Unit	2 : 4	Alchl/Drgs: 0	Speed: 35 MPH	Dir: NW	Veh Mnvr/Ped Actn: 4		Obj Strk:									

Legend for Report Details:

Acc No - Accident Number
Injuries: F - Fatal, A - Class A, B - Class B, C - Class C
Condition: R - Road Surface, L - Ambient Light, W - Weather
Rd Ch - Road Character
Rd Ci - Roadway Contributing Circumstances
Trfc Ctl - Traffic Control: Dv - Device, Op - Operating
Alchl/Drgs - Alcohol Drugs Suspected
Veh Mnvr/Ped Actn - Vehicle Maneuver/Pedestrian Action
Obj Strk - Object Struck

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Summary Statistics

High Level Crash Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	22	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	2	9.09
Total Injury Crashes	2	9.09
Property Damage Only Crashes	20	90.91
Night Crashes	2	9.09
Wet Crashes	2	9.09
Alcohol/Drugs Involvement Crashes	0	0.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	22	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	1	4.55
Class C Crashes	1	4.55
Property Damage Only Crashes	20	90.91

Vehicle Exposure Statistics

Annual ADT = 3100

Total Length = 0.142 (Miles) 0.229 (Kilometers)

Total Vehicle Exposure = 0.8 (MVMT) 1.29 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Million Vehicle Kilometers
Total Crash Rate	2736.98	1700.68
Fatal Crash Rate	0.00	0.00
Non Fatal Crash Rate	248.82	154.61
Night Crash Rate	248.82	154.61
Wet Crash Rate	248.82	154.61
EPDO Rate	4578.22	2844.78

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Miscellaneous Statistics

Severity Index =	1.67
EPDO Crash Index =	36.80
Estimated Property Damage Total = \$	96950.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANGLE	5	22.73
LEFT TURN, DIFFERENT ROADWAYS	8	36.36
LEFT TURN, SAME ROADWAY	3	13.64
REAR END, SLOW OR STOP	1	4.55
SIDESWIPE, SAME DIRECTION	5	22.73

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	2	40.00
Class C Injuries	3	60.00
Total Non-Fatal Injuries	5	100.00
Total Injuries	5	100.00

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Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	3	13.64
Feb	0	0.00
Mar	2	9.09
Apr	2	9.09
May	1	4.55
Jun	4	18.18
Jul	1	4.55
Aug	3	13.64
Sep	1	4.55
Oct	2	9.09
Nov	3	13.64
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	4	18.18
Tue	1	4.55
Wed	5	22.73
Thu	3	13.64
Fri	5	22.73
Sat	4	18.18
Sun	0	0.00

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Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	0	0.00
0100-0159	0	0.00
0200-0259	0	0.00
0300-0359	0	0.00
0400-0459	0	0.00
0500-0559	0	0.00
0600-0659	0	0.00
0700-0759	0	0.00
0800-0859	1	4.55
0900-0959	3	13.64
1000-1059	3	13.64
1100-1159	0	0.00
1200-1259	2	9.09
1300-1359	1	4.55
1400-1459	0	0.00
1500-1559	5	22.73
1600-1659	4	18.18
1700-1759	0	0.00
1800-1859	3	13.64
1900-1959	0	0.00
2000-2059	0	0.00
2100-2159	0	0.00
2200-2259	0	0.00
2300-2359	0	0.00

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Light and Road Conditions Summary

Condition	Dry	Wet	Other	Total
Day	18	2	0	20
Dark	2	0	0	2
Other	0	0	0	0
Total	20	2	0	22

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
MOTORCYCLE	1	2.27
PASSENGER CAR	21	47.73
PICKUP	4	9.09
SINGLE UNIT TRUCK (2-AXLE, 6-TIRE)	1	2.27
SPORT UTILITY	13	29.55
UNKNOWN	1	2.27
VAN	3	6.82

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Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2013	4	0	1	3
2014	1	0	0	1
2015	8	0	0	8
2016	4	0	1	3
2017	4	0	0	4
2018	1	0	0	1
Total	22	0	2	20

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2013	0	3
2014	0	0
2015	0	0
2016	0	2
2017	0	0
2018	0	0
Total	0	5

Miscellaneous Totals

Year	Property Damage	EPDO Index
2013	\$ 22800	11.40
2014	\$ 7000	1.00
2015	\$ 29000	8.00
2016	\$ 24700	11.40
2017	\$ 11750	4.00
2018	\$ 1700	1.00
Total	\$ 96950	36.80

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road &			
				Fixed Object	Angle	Side Swipe	Other
2013	2	0	0	0	1	1	0
2014	1	0	0	0	0	0	0
2015	4	0	1	0	1	2	0

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Year	Left Turn	Right Turn	Rear End	Run Off Road &		Angle	Side Swipe	Other
				Fixed Object				
2016	1	0	0	0		2	1	0
2017	3	0	0	0		0	1	0
2018	0	0	0	0		1	0	0
Total	11	0	1	0		5	5	0

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Strip Diagram

Features	Milepost	Crash IDs
RIDGE RD	0.00	103707910 103731838 103762280 103832952
		104191044 104356439 104406822 104427795
		104457232 104464701 104501679 104532976
		104545386 104666310 104766861 104773520
		104903285 104976003 104986465 105121899
		105292369 105361496
	0.01	
	0.02	
	0.03	
	0.04	
	0.05	
	0.06	
	0.07	
	0.08	
	0.09	
	0.10	
	0.11	
	0.12	
	0.13	
I-440 EB DIVERGE	0.14	

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Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
I5870I				76.8	8.4	3100	

Request Date	Courier Service	Phone No.	Ext.	Fax No.
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County			Municipality					
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years
WAKE	92	5	All and Rural		0	03/01/2013	02/28/2018	5.00

Location Text	Requestor
I-440 EB Off Ramp from Ridge Rd to I-440 EB Ramp diverge	

Included Accidents	Old MP	New MP	Type
104464701		0	I
104191044		0	I
104532976		0	I
103731838		0	I
104986465		0	I
104457232		0	I
104545386		0	I
104976003		0	I
104501679		0	I
105361496		0	I
104773520		0	I
105292369		0	I
105121899		0	I
104903285		0	I
104766861		0	I
104666310		0	I
104427795		0	I
104406822		0	I
104356439		0	I
103832952		0	I
103762280		0	I
103707910		0	I

Fiche Roads

Name	Code
I 1	10000001
US 70BUS	29000070

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Fiche Roads

Name	Code
US 70ALT	21000070
US 70BYP	22000070
US 401	20000401
NC 50	30000050
GLENNWOOD	50011977
EXIT 7	50038709
EXIT 7A	50039831
EXIT 7B	50039832
EXIT 6	50039123
I 440	10000440
US 70	20000070
RIDGE	50025900

Strip Road

Name	Code	Begin MP	End MP	Miles	Kilometers
I 1	10000001	0.000	0.142	0.142	0.229
