

**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:** I58700
Location: I-440 EB Off Ramp from I-440 EB ramp weave to just west of US 70 (Glenwood Ave)

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	104684519	0.000	03/24/2016 18:15	REAR END, SLOW OR STOP	\$ 600	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 4	Alchl/Drugs: 0	Speed: 30 MPH	Dir: E		Veh Mnvr/Ped Actn: 4				Obj Strk:						
Unit	2 : 4	Alchl/Drugs: 0	Speed: 0 MPH	Dir: E		Veh Mnvr/Ped Actn: 1				Obj Strk:						
2	103715805	0.047	04/01/2013 18:05	REAR END, SLOW OR STOP	\$ 5000	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 1	Alchl/Drugs: 0	Speed: 40 MPH	Dir: E		Veh Mnvr/Ped Actn: 4				Obj Strk:						
Unit	2 : 3	Alchl/Drugs: 0	Speed: 45 MPH	Dir: E		Veh Mnvr/Ped Actn: 4				Obj Strk:						
3	103795065	0.047	07/08/2013 08:36	REAR END, SLOW OR STOP	\$ 6000	0	0	0	0	1	1	2	1	0	0	
Unit	1 : 1	Alchl/Drugs: 0	Speed: 60 MPH	Dir: E		Veh Mnvr/Ped Actn: 1				Obj Strk:						
Unit	2 : 5	Alchl/Drugs: 0	Speed: 60 MPH	Dir: E		Veh Mnvr/Ped Actn: 11				Obj Strk:						
4	103929052	0.047	12/14/2013 12:50	REAR END, SLOW OR STOP	\$ 4000	0	0	0	0	2	1	3	1	0	0	
Unit	1 : 1	Alchl/Drugs: 0	Speed: 40 MPH	Dir: NE		Veh Mnvr/Ped Actn: 5				Obj Strk:						
Unit	2 : 2	Alchl/Drugs: 0	Speed: 40 MPH	Dir: NE		Veh Mnvr/Ped Actn: 4				Obj Strk:						
5	104027116	0.047	04/04/2014 19:36	REAR END, SLOW OR STOP	\$ 11000	0	0	0	0	1	2	1	1	0	0	
Unit	1 : 1	Alchl/Drugs: 0	Speed: 40 MPH	Dir: E		Veh Mnvr/Ped Actn: 1				Obj Strk:						
Unit	2 : 1	Alchl/Drugs: 0	Speed: 0 MPH	Dir: E		Veh Mnvr/Ped Actn: 1				Obj Strk:						
Unit	3 : 1	Alchl/Drugs: 0	Speed: 50 MPH	Dir: E		Veh Mnvr/Ped Actn: 4				Obj Strk:						
6	104031075	0.047	04/10/2014 16:41	SIDESWIPE, SAME DIRECTION	\$ 751	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 1	Alchl/Drugs: 7	Speed: 30 MPH	Dir: E		Veh Mnvr/Ped Actn: 5				Obj Strk:						
Unit	2 : 1	Alchl/Drugs: 0	Speed: 45 MPH	Dir: E		Veh Mnvr/Ped Actn: 4				Obj Strk:						
7	104126693	0.047	08/13/2014 19:16	FIXED OBJECT	\$ 7800	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 1	Alchl/Drugs: 0	Speed: 45 MPH	Dir: E		Veh Mnvr/Ped Actn: 5				Obj Strk:			54			
Unit	2 : 1	Alchl/Drugs: 0	Speed: 0 MPH	Dir: E		Veh Mnvr/Ped Actn: 1				Obj Strk:						
8	104242122	0.047	12/13/2014 13:33	REAR END, SLOW OR STOP	\$ 2500	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 2	Alchl/Drugs: 0	Speed: 60 MPH	Dir: E		Veh Mnvr/Ped Actn: 4				Obj Strk:						

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								F	A	B	C	R	L	W	Ch	Ci	Dv	Op
Unit	2 : 1	Alchl/Drugs:	0	Speed:	0 MPH	Dir:	E	Veh Mnvr/Ped Actn:				1	Obj Strk:					
Unit	3 : 4	Alchl/Drugs:	0	Speed:	0 MPH	Dir:	E	Veh Mnvr/Ped Actn:				1	Obj Strk:					
9	104306807	0.047	02/27/2015 07:46	SIDESWIPE, SAME DIRECTION			\$ 6000	0	0	0	1	4	1	1	1	0	0	
Unit	1 : 1	Alchl/Drugs:	0	Speed:	45 MPH	Dir:	E	Veh Mnvr/Ped Actn:				5	Obj Strk:					
Unit	2 : 4	Alchl/Drugs:	0	Speed:	60 MPH	Dir:	E	Veh Mnvr/Ped Actn:				4	Obj Strk:					
10	104537750	0.047	10/30/2015 11:10	ANIMAL			\$ 5000	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 1	Alchl/Drugs:	0	Speed:	50 MPH	Dir:	NE	Veh Mnvr/Ped Actn:				7	Obj Strk: 17					
11	104796981	0.047	07/21/2016 19:21	REAR END, SLOW OR STOP			\$ 1700	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 1	Alchl/Drugs:	7	Speed:	10 MPH	Dir:	E	Veh Mnvr/Ped Actn:				4	Obj Strk:					
Unit	2 : 1	Alchl/Drugs:	0	Speed:	5 MPH	Dir:	E	Veh Mnvr/Ped Actn:				11	Obj Strk:					
12	105151327	0.047	07/05/2017 07:19	SIDESWIPE, SAME DIRECTION			\$ 2200	0	0	0	0	1	1	1	1	0	2 1	
Unit	1 : 1	Alchl/Drugs:	0	Speed:	60 MPH	Dir:	NE	Veh Mnvr/Ped Actn:				4	Obj Strk:					
Unit	2 : 1	Alchl/Drugs:	0	Speed:	60 MPH	Dir:	NE	Veh Mnvr/Ped Actn:				5	Obj Strk:					
13	105187809	0.047	08/11/2017 08:45	SIDESWIPE, SAME DIRECTION			\$ 1500	0	0	0	1	1	1	1	1	0	0	
Unit	1 : 10	Alchl/Drugs:	0	Speed:	55 MPH	Dir:	E	Veh Mnvr/Ped Actn:				5	Obj Strk:					
Unit	2 : 1	Alchl/Drugs:	0	Speed:	55 MPH	Dir:	E	Veh Mnvr/Ped Actn:				5	Obj Strk:					
14	103884710	0.142	10/27/2013 12:36	REAR END, SLOW OR STOP			\$ 500	0	0	0	1	1	1	1	5	0	0	
Unit	1 : 1	Alchl/Drugs:	0	Speed:	45 MPH	Dir:	SE	Veh Mnvr/Ped Actn:				4	Obj Strk:					
Unit	2 : 1	Alchl/Drugs:	0	Speed:	0 MPH	Dir:	SE	Veh Mnvr/Ped Actn:				1	Obj Strk:					
15	103910760	0.142	11/23/2013 07:56	RAN OFF ROAD - RIGHT			\$ 6000	0	0	0	0	2	1	1	7	0	0	
Unit	1 : 1	Alchl/Drugs:	0	Speed:	60 MPH	Dir:	NE	Veh Mnvr/Ped Actn:				4	Obj Strk: 59					
16	105317023	0.142	12/09/2017 11:52	RAN OFF ROAD - RIGHT			\$ 5000	0	0	0	0	2	1	3	1	0	0	
Unit	1 : 1	Alchl/Drugs:	0	Speed:	50 MPH	Dir:	S	Veh Mnvr/Ped Actn:				5	Obj Strk:					
17	105317013	0.142	12/09/2017 13:15	FIXED OBJECT			\$ 10000	0	0	0	0	2	1	3	7	0	0	
Unit	1 : 1	Alchl/Drugs:	0	Speed:	60 MPH	Dir:	E	Veh Mnvr/Ped Actn:				11	Obj Strk: 58					
18	103950175	0.175	01/07/2014 11:44	RAN OFF ROAD - RIGHT			\$ 8000	0	0	1	0	1	1	1	7	0	0	
Unit	1 : 1	Alchl/Drugs:	0	Speed:	50 MPH	Dir:	E	Veh Mnvr/Ped Actn:				4	Obj Strk:					

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						F	A	B	C	R	L	W	Ch	Ci	Dv	Op
19	105060810	0.198	04/06/2017 13:52	RAN OFF ROAD - LEFT	\$ 2000	0	0	0	0	1	1	1	7	0	0	
Unit	1 : 1	Alchl/Drgs:	0	Speed: 45 MPH Dir: E		Veh Mnvr/Ped Actn:				4			Obj Strk:		38	
20	105150543	0.198	07/03/2017 21:33	RAN OFF ROAD - RIGHT	\$ 500	0	0	0	0	2	5	2	7	0	0	
Unit	1 : 1	Alchl/Drgs:	0	Speed: 60 MPH Dir: NE		Veh Mnvr/Ped Actn:				4			Obj Strk:		42	
21	104754227	0.241	06/06/2016 08:11	REAR END, SLOW OR STOP	\$ 1000	0	0	0	0	1	1	2	1	0	0	
Unit	1 : 1	Alchl/Drgs:	0	Speed: 35 MPH Dir: E		Veh Mnvr/Ped Actn:				4			Obj Strk:			
Unit	2 : 4	Alchl/Drgs:	0	Speed: 35 MPH Dir: E		Veh Mnvr/Ped Actn:				1			Obj Strk:			
22	103898574	0.313	11/09/2013 14:20	REAR END, SLOW OR STOP	\$ 400	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 1	Alchl/Drgs:	0	Speed: 5 MPH Dir: E		Veh Mnvr/Ped Actn:				4			Obj Strk:			
Unit	2 : 1	Alchl/Drgs:	0	Speed: 0 MPH Dir: E		Veh Mnvr/Ped Actn:				1			Obj Strk:			
23	103912820	0.317	11/26/2013 17:19	REAR END, SLOW OR STOP	\$ 500	0	0	0	0	2	5	3	7	0	0	
Unit	1 : 4	Alchl/Drgs:	0	Speed: 25 MPH Dir: SE		Veh Mnvr/Ped Actn:				4			Obj Strk:			
Unit	2 : 1	Alchl/Drgs:	0	Speed: 0 MPH Dir: SE		Veh Mnvr/Ped Actn:				1			Obj Strk:			
24	103950548	0.317	01/11/2014 13:20	REAR END, SLOW OR STOP	\$ 2	0	0	0	0	2	1	3		0	3	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 1 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:			
25	104290634	0.317	02/09/2015 15:00	REAR END, SLOW OR STOP	\$ 2500	0	0	0	2	2	1	2	3	0	2	1
Unit	1 : 32	Alchl/Drgs:	0	Speed: 45 MPH Dir: S		Veh Mnvr/Ped Actn:				4			Obj Strk:			
Unit	2 : 1	Alchl/Drgs:	0	Speed: 45 MPH Dir: S		Veh Mnvr/Ped Actn:				5			Obj Strk:			
26	104363181	0.317	04/24/2015 13:45	REAR END, SLOW OR STOP	\$ 2250	0	0	0	0	1	1	1	1	0	3	1
Unit	1 : 1	Alchl/Drgs:	0	Speed: 10 MPH Dir: NE		Veh Mnvr/Ped Actn:				11			Obj Strk:			
Unit	2 : 1	Alchl/Drgs:	0	Speed: 0 MPH Dir: NE		Veh Mnvr/Ped Actn:				4			Obj Strk:			
27	104405301	0.317	06/13/2015 16:28	REAR END, SLOW OR STOP	\$ 800	0	0	0	0	1	1	1	1	0	3	1
Unit	1 : 2	Alchl/Drgs:	0	Speed: 30 MPH Dir: E		Veh Mnvr/Ped Actn:				4			Obj Strk:			
Unit	2 : 2	Alchl/Drgs:	0	Speed: 0 MPH Dir: E		Veh Mnvr/Ped Actn:				1			Obj Strk:			

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Strip Analysis Report**

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

**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/Drugs - 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	27	100.00
Fatal Crashes	0	0.00
Non-Fatal Injury Crashes	5	18.52
Total Injury Crashes	5	18.52
Property Damage Only Crashes	22	81.48
Night Crashes	2	7.41
Wet Crashes	8	29.63
Alcohol/Drugs Involvement Crashes	0	0.00

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	27	100.00
Fatal Crashes	0	0.00
Class A Crashes	0	0.00
Class B Crashes	1	3.70
Class C Crashes	4	14.81
Property Damage Only Crashes	22	81.48

Vehicle Exposure Statistics

Annual ADT = 14000

Total Length = 0.317 (Miles)

0.51 (Kilometers)

Total Vehicle Exposure = 8.1 (MVMT)

13.04 (MVKMT)

Crash Rate	Crashes Per 100 Million Vehicle Miles	Crashes Per 100 Million Vehicle Kilometers
Total Crash Rate	333.18	207.03
Fatal Crash Rate	0.00	0.00
Non Fatal Crash Rate	61.70	38.34
Night Crash Rate	24.68	15.34
Wet Crash Rate	98.72	61.34
EPDO Rate	789.75	490.73

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Miscellaneous Statistics

Severity Index =	2.37
EPDO Crash Index =	64.00
Estimated Property Damage Total = \$	93503.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANIMAL	1	3.70
FIXED OBJECT	2	7.41
RAN OFF ROAD - LEFT	1	3.70
RAN OFF ROAD - RIGHT	4	14.81
REAR END, SLOW OR STOP	15	55.56
SIDESWIPE, SAME DIRECTION	4	14.81

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	0	0.00
Class A Injuries	0	0.00
Class B Injuries	1	16.67
Class C Injuries	5	83.33
Total Non-Fatal Injuries	6	100.00
Total Injuries	6	100.00

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Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	2	7.41
Feb	2	7.41
Mar	1	3.70
Apr	5	18.52
May	0	0.00
Jun	2	7.41
Jul	4	14.81
Aug	2	7.41
Sep	0	0.00
Oct	2	7.41
Nov	3	11.11
Dec	4	14.81

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	5	18.52
Tue	2	7.41
Wed	2	7.41
Thu	4	14.81
Fri	5	18.52
Sat	8	29.63
Sun	1	3.70

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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	3	11.11
0800-0859	3	11.11
0900-0959	0	0.00
1000-1059	0	0.00
1100-1159	3	11.11
1200-1259	2	7.41
1300-1359	5	18.52
1400-1459	1	3.70
1500-1559	1	3.70
1600-1659	2	7.41
1700-1759	1	3.70
1800-1859	2	7.41
1900-1959	3	11.11
2000-2059	0	0.00
2100-2159	1	3.70
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	17	6	1	24
Dark	0	2	0	2
Other	1	0	0	1
Total	18	8	1	27

Object Struck Summary

Object Type	Times Struck	Percent of Total
ABUTMENT OF UNDERPASS	1	16.67
ANIMAL	1	16.67
DITCH	1	16.67
EMBANKMENT	1	16.67
GUARDRAIL FACE ON SHOULDER	1	16.67
OFFICIAL HIGHWAY SIGN BREAKAWAY	1	16.67

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
LIGHT TRUCK (MINI-VAN, PANEL)	1	2.04
PASSENGER CAR	35	71.43
PICKUP	4	8.16
SINGLE UNIT TRUCK (2-AXLE, 6-TIRE)	1	2.04
SPORT UTILITY	6	12.24
UNKNOWN	1	2.04
VAN	1	2.04

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Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2013	7	0	1	6
2014	6	0	1	5
2015	5	0	2	3
2016	3	0	0	3
2017	6	0	1	5
2018	0	0	0	0
Total	27	0	5	22

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2013	0	1
2014	0	1
2015	0	3
2016	0	0
2017	0	1
2018	0	0
Total	0	6

Miscellaneous Totals

Year	Property Damage	EPDO Index
2013	\$ 22400	14.40
2014	\$ 30053	13.40
2015	\$ 16550	19.80
2016	\$ 3300	3.00
2017	\$ 21200	13.40
2018	\$ 0	0.00
Total	\$ 93503	64.00

Type of Accident Totals

Year	Left Turn	Right Turn	Rear End	Run Off Road &			
				Fixed Object	Angle	Side Swipe	Other
2013	0	0	6	1	0	0	0
2014	0	0	3	2	0	1	0
2015	0	0	3	0	0	1	1

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Run Off Road &							
Year	Left Turn	Right Turn	Rear End	Fixed Object	Angle	Side Swipe	Other
2016	0	0	3	0	0	0	0
2017	0	0	0	4	0	2	0
2018	0	0	0	0	0	0	0
Total	0	0	15	7	0	4	1

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Strip Diagram

Features	Milepost	Crash IDs
I-440 EB OFF RAMP WEAVE	0.00	104684519
	0.01	
	0.02	
	0.03	
	0.04	
	0.05	103715805 103795065 103929052 104027116
		104031075 104126693 104242122 104306807
		104537750 104796981 105151327 105187809
	0.06	
	0.07	
	0.08	
	0.09	
	0.10	
	0.11	
I-440 EB OFF RAMP	0.12	
	0.13	
	0.14	103884710 103910760 105317023 105317013
	0.15	
	0.16	
	0.17	103950175
	0.18	
	0.19	
	0.20	105060810 105150543
	0.21	
	0.22	
	0.23	
	0.24	104754227
	0.25	
US 70	0.26	
	0.27	
	0.28	
	0.29	
	0.30	
	0.31	103898574
	0.32	103912820 103950548 104290634 104363181
		104405301

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Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
I58700				76.8	8.4	14000	

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 I-440 EB ramp weave to just west of US 70 (Glenwood Ave)	

Included Accidents	Old MP	New MP	Type
104290634		0.317	I
105317023		0.142	I
104796981		0.047	I
103929052		0.047	I
104684519		0	I
104537750		0.047	I
104031075		0.047	I
105187809		0.047	I
105151327		0.047	I
105060810		0.198	I
103950175		0.175	I
104027116		0.047	I
103795065		0.047	I
103884710		0.142	I
103715805		0.047	I
103910760		0.142	I
104242122		0.047	I
104126693		0.047	I
105150543		0.198	I
105317013		0.142	I
104306807		0.047	I
103898574		0.313	I
104363181		0.317	I
103950548		0.317	I
103912820		0.317	I
104405301		0.317	I
104754227		0.241	I

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Fiche Roads

Name	Code
I 1	10000001
US 70BUS	29000070
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	0.317	0.317	0.510