

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

Study Criteria Summary

County: MONTGOMERY **City:** All and Rural
Date: 07/01/2014 to 1/31/2019 **Study:** 41000057912BEFORE
Location: NC 24/NC 27 at NC 73

Report Details

Acc No	Crash ID	Date	Accident Type	Total Damage	Injuries				Condition			Road		Trfc Ctl	
					F	A	B	C	R	L	W	Ch	Ci	Dv	Op
1	104166123	09/29/2014 08:30	ANGLE	\$ 10500	0	0	2	1	1	1	2	1	0	1	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 20 MPH Dir: N	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 2	Alchl/Drgs: 0	Speed: 55 MPH Dir: E	Veh Mnvr / Ped Actn: 4	Obj Strk:										
2	104391737	05/23/2015 21:37	LEFT TURN, DIFFERENT ROADWAYS	\$ 7500	1	0	0	0	1	5	1	1	0	1	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 5 MPH Dir: NW	Veh Mnvr / Ped Actn: 8	Obj Strk:										
Unit	2 : 20	Alchl/Drgs: 1	Speed: 55 MPH Dir: E	Veh Mnvr / Ped Actn: 4	Obj Strk:										
3	104457752	08/08/2015 13:57	LEFT TURN, DIFFERENT ROADWAYS	\$ 4200	0	0	1	0	1	1	1	1	0	1	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 25 MPH Dir: N	Veh Mnvr / Ped Actn: 8	Obj Strk:										
Unit	2 : 20	Alchl/Drgs: 0	Speed: 55 MPH Dir: E	Veh Mnvr / Ped Actn: 4	Obj Strk:										
4	104465026	08/18/2015 13:00	LEFT TURN, SAME ROADWAY	\$ 5500	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 5	Alchl/Drgs: 3	Speed: 55 MPH Dir: E	Veh Mnvr / Ped Actn: 9	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 55 MPH Dir: E	Veh Mnvr / Ped Actn: 4	Obj Strk:										
5	104676405	03/15/2016 20:55	ANIMAL	\$ 1500	0	0	0	0	1	5	1		0		
Unit	1 : 1	Alchl/Drgs: 0	Speed: 0 MPH Dir: E	Veh Mnvr / Ped Actn: 4	Obj Strk: 17										
6	104747525	05/27/2016 12:51	LEFT TURN, DIFFERENT ROADWAYS	\$ 29000	0	0	1	1	1	1	1	1	0	1	1
Unit	1 : 1	Alchl/Drgs: 0	Speed: 25 MPH Dir: N	Veh Mnvr / Ped Actn: 8	Obj Strk:										
Unit	2 : 4	Alchl/Drgs: 0	Speed: 45 MPH Dir: E	Veh Mnvr / Ped Actn: 4	Obj Strk:										
7	104805071	07/26/2016 10:51	SIDESWIPE, OPPOSITE DIRECTION	\$ 2800	0	0	0	0	1	1	1	1	0	0	
Unit	1 : 14	Alchl/Drgs: 0	Speed: 55 MPH Dir: E	Veh Mnvr / Ped Actn: 4	Obj Strk:										
Unit	2 : 1	Alchl/Drgs: 0	Speed: 20 MPH Dir: E	Veh Mnvr / Ped Actn: 5	Obj Strk:										
8	104873113	09/24/2016 11:11	ANGLE	\$ 17500	0	1	0	0	1	1	2	1	0	1	1
Unit	1 : 2	Alchl/Drgs: 0	Speed: 10 MPH Dir: W	Veh Mnvr / Ped Actn: 8	Obj Strk:										
Unit	2 : 20	Alchl/Drgs: 0	Speed: 55 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
9	105256362	10/18/2017 00:38	ANIMAL	\$ 500	0	0	0	0	1	5	1	0			
Unit	1 : 1	Alchl/Drgs: 0	Speed: 0 MPH	Dir: E	Veh Mnvr / Ped Actn:				4	Obj Strk:		17			
10	105357178	01/20/2018 18:44	ANIMAL	\$ 2000	0	0	0	0	1	5	1	0			
Unit	1 : 1	Alchl/Drgs: 0	Speed: 0 MPH	Dir: E	Veh Mnvr / Ped Actn:				4	Obj Strk:		17			
11	105469245	05/01/2018 16:44	LEFT TURN, DIFFERENT ROADWAYS	\$ 3500	0	0	0	4	1	1	1	1	0	1	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 10 MPH	Dir: W	Veh Mnvr / Ped Actn:				8	Obj Strk:					
Unit	2 : 4	Alchl/Drgs: 0	Speed: 55 MPH	Dir: E	Veh Mnvr / Ped Actn:				4	Obj Strk:					
12	105560486	07/27/2018 17:21	LEFT TURN, DIFFERENT ROADWAYS	\$ 5500	0	0	0	3	1	1	1	1	0	1	1
Unit	1 : 2	Alchl/Drgs: 0	Speed: 10 MPH	Dir: W	Veh Mnvr / Ped Actn:				8	Obj Strk:					
Unit	2 : 2	Alchl/Drgs: 0	Speed: 55 MPH	Dir: E	Veh Mnvr / Ped Actn:				4	Obj Strk:					
13	105613343	09/25/2018 08:58	LEFT TURN, DIFFERENT ROADWAYS	\$ 19500	0	0	0	1	1	1	2	1	0	1	1
Unit	1 : 4	Alchl/Drgs: 0	Speed: 5 MPH	Dir: N	Veh Mnvr / Ped Actn:				8	Obj Strk:					
Unit	2 : 4	Alchl/Drgs: 0	Speed: 55 MPH	Dir: E	Veh Mnvr / Ped Actn:				4	Obj Strk:					
14	105628926	10/06/2018 09:23	HEAD ON	\$ 13000	0	1	0	2	1	1	2	1	0	0	
Unit	1 : 1	Alchl/Drgs: 0	Speed: 30 MPH	Dir: W	Veh Mnvr / Ped Actn:				11	Obj Strk:					
Unit	2 : 20	Alchl/Drgs: 0	Speed: 55 MPH	Dir: E	Veh Mnvr / Ped Actn:				4	Obj Strk:					
15	105740113	01/07/2019 09:14	BACKING UP	\$ 2500	0	0	0	0	1	1	2	1	0	1	1
Unit	1 : 2	Alchl/Drgs: 7	Speed: 5 MPH	Dir: W	Veh Mnvr / Ped Actn:				10	Obj Strk:					
Unit	2 : 1	Alchl/Drgs: 0	Speed: 0 MPH	Dir: W	Veh Mnvr / Ped Actn:				1	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	15	100.00
Fatal Crashes	1	6.67
Non-Fatal Injury Crashes	8	53.33
Total Injury Crashes	9	60.00
Property Damage Only Crashes	6	40.00
Night Crashes	4	26.67
Wet Crashes	0	0.00
Alcohol/Drugs Involvement Crashes	1	6.67

Crash Severity Summary

Crash Type	Number of Crashes	Percent of Total
Total Crashes	15	100.00
Fatal Crashes	1	6.67
Class A Crashes	2	13.33
Class B Crashes	3	20.00
Class C Crashes	3	20.00
Property Damage Only Crashes	6	40.00

Vehicle Exposure Statistics

Annual ADT = 5500

Total Vehicle Exposure = 9.22 (MEV)

Crash Rate	Crashes Per 100 Million Vehicles Entered
Total Crash Rate	162.73
Fatal Crash Rate	10.85
Non Fatal Crash Rate	86.79
Night Crash Rate	43.39
Wet Crash Rate	0.00
EPDO Rate	3111.30

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Miscellaneous Statistics

Severity Index =	19.12
EPDO Crash Index =	286.80
Estimated Property Damage Total = \$	125000.00

Accident Type Summary

Accident Type	Number of Crashes	Percent of Total
ANGLE	2	13.33
ANIMAL	3	20.00
BACKING UP	1	6.67
HEAD ON	1	6.67
LEFT TURN, DIFFERENT ROADWAYS	6	40.00
LEFT TURN, SAME ROADWAY	1	6.67
SIDESWIPE, OPPOSITE DIRECTION	1	6.67

Injury Summary

Injury Type	Number of Injuries	Percent of Total
Fatal Injuries	1	5.26
Class A Injuries	2	10.53
Class B Injuries	4	21.05
Class C Injuries	12	63.16
Total Non-Fatal Injuries	18	94.74
Total Injuries	19	100.00

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Monthly Summary

Month	Number of Crashes	Percent of Total
Jan	2	13.33
Feb	0	0.00
Mar	1	6.67
Apr	0	0.00
May	3	20.00
Jun	0	0.00
Jul	2	13.33
Aug	2	13.33
Sep	3	20.00
Oct	2	13.33
Nov	0	0.00
Dec	0	0.00

Daily Summary

Day	Number of Crashes	Percent of Total
Mon	2	13.33
Tue	5	33.33
Wed	1	6.67
Thu	0	0.00
Fri	2	13.33
Sat	5	33.33
Sun	0	0.00

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Hourly Summary

Hour	Number of Crashes	Percent of Total
0000-0059	1	6.67
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	2	13.33
0900-0959	2	13.33
1000-1059	1	6.67
1100-1159	1	6.67
1200-1259	1	6.67
1300-1359	2	13.33
1400-1459	0	0.00
1500-1559	0	0.00
1600-1659	1	6.67
1700-1759	1	6.67
1800-1859	1	6.67
1900-1959	0	0.00
2000-2059	1	6.67
2100-2159	1	6.67
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	11	0	0	11
Dark	4	0	0	4
Other	0	0	0	0
Total	15	0	0	15

Object Struck Summary

Object Type	Times Struck	Percent of Total
ANIMAL	3	100.00

Vehicle Type Summary

Vehicle Type	Number Involved	Percent of Total
MOTORCYCLE	4	14.81
PASSENGER CAR	9	33.33
PICKUP	5	18.52
SPORT UTILITY	7	25.93
TRACTOR/SEMI-TRAILER	1	3.70
VAN	1	3.70

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Yearly Totals Summary

Accident Totals

Year	Total Accidents	Fatal Accidents	Injury Accidents	Property Damage Only Accidents
2014	1	0	1	0
2015	3	1	1	1
2016	4	0	2	2
2017	1	0	0	1
2018	5	0	4	1
2019	1	0	0	1
Total	15	1	8	6

Injury Totals

Year	Fatal Injuries	Class A, B, or C Injuries
2014	0	3
2015	1	1
2016	0	3
2017	0	0
2018	0	11
2019	0	0
Total	1	18

Miscellaneous Totals

Year	Property Damage	EPDO Index
2014	\$ 10500	8.40
2015	\$ 17200	86.20
2016	\$ 50800	87.20
2017	\$ 500	1.00
2018	\$ 43500	103.00
2019	\$ 2500	1.00
Total	\$ 125000	286.80

Type of Accident Totals

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

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Year	Run Off Road &						
	Left Turn	Right Turn	Rear End	Fixed Object	Angle	Side Swipe	Other
2016	1	0	0	0	1	1	1
2017	0	0	0	0	0	0	1
2018	3	0	0	0	0	0	2
2019	0	0	0	0	0	0	1
Total	7	0	0	0	2	1	5

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Study Criteria

Study Name	Log No.	PH No.	TIP No.	K/A Cf.	B/C Cf.	ADT	ADT Route
41000057912BEFORE				76.8	8.4	5500	

Request Date	Courier Service	Phone No.	Ext.	Fax No.

County			Municipality			Y-Line Ft.	Begin Date	End Date	Years
Name	Code	Div.	Name	Code	Y-Line Ft.	Begin Date	End Date	Years	
MONTGOMERY	62	8	All and Rural		150	07/01/2014	1/31/2019	4.59	

Location Text	Requestor
NC 24/NC 27 at NC 73	

Included Accidents
104676405
105256362

Fiche Roads

Name	Code
NC 27	30000027
NC 73	30000073
NC 24	30000024

Intersection Road Combinations

Name	Code	Code	Name
NC 24	30000024	30000027	NC 27
NC 24	30000024	30000073	NC 73
NC 27	30000027	30000073	NC 73