



Program Provided by:
 Traffic Engineering Division
 Collision Analysis and Safety Branch
 (405) 522-0985
 Created: 11/06/2018
 by Jessica Avery

Study Map & Totals

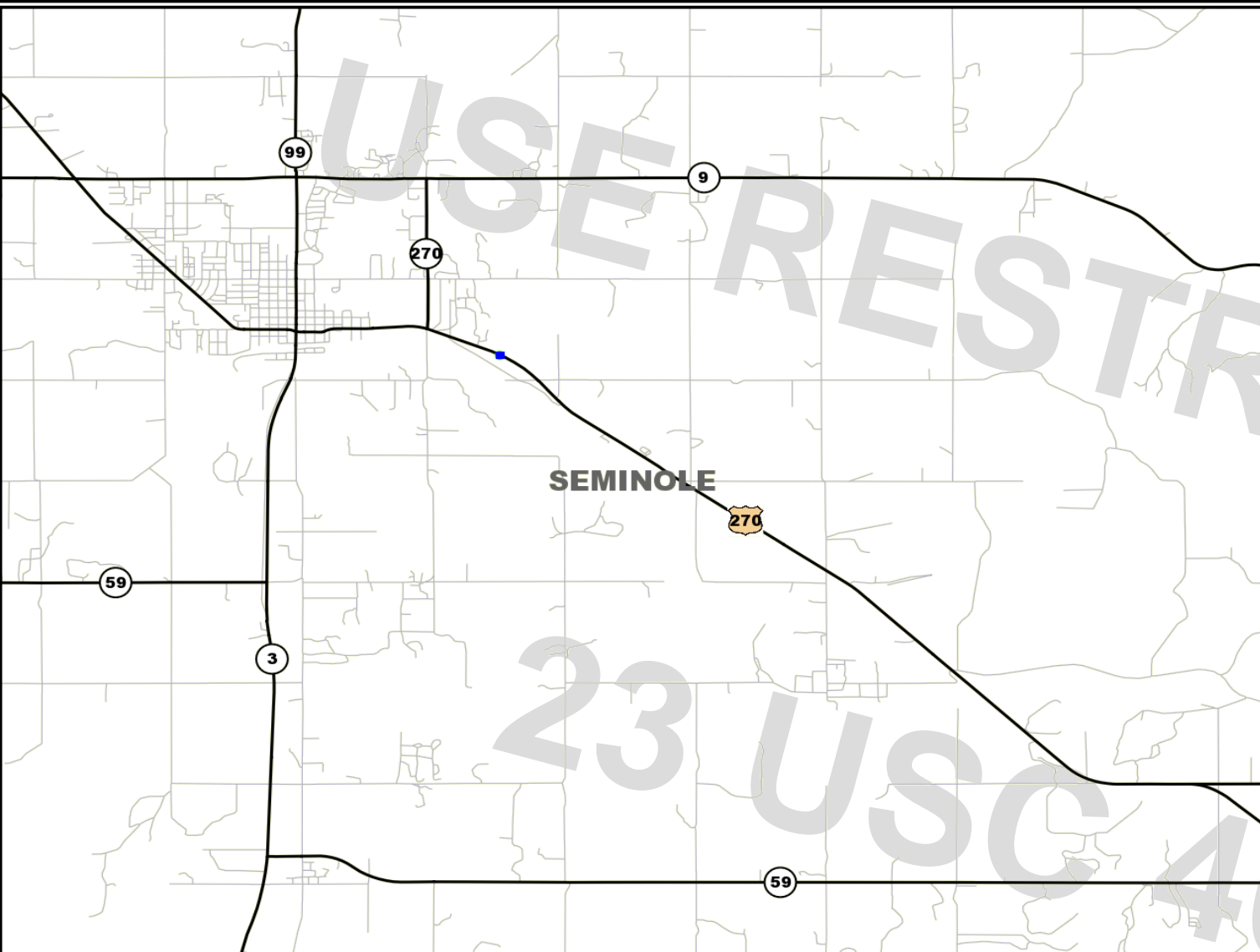
Legend

- ▲ Fatality
- Injury
- Property Damage



Remarks:

NONE



NBI 13079 & JP 21006(04)

Date Range: 01-01-2007 thru 12-31-2016

	2007						2008						2009					
	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot
Collisions						0						0					1	1
Persons						0						0						0



STUDY TOTALS (CONT.)

NBI 13079 & JP 21006(04)

Date Range: 01-01-2007 Thru 12-31-2016

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	2010						2011						2012					
	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot
Collisions						0						0						0
Persons						0						0						0

	2013						2014						2015					
	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot
Collisions		1				1						0						0
Persons		2				2						0						0

	2016					
	Fat	Incap Inj	Non-Incap Inj	Poss Inj	PD	Tot
Collisions			1			1
Persons			1			1

	Study Total					
	Fatality	Incapacitating Injury	Non-Incapacitating Injury	Possible Injury	Property Damage	Total
Collisions		1	1		1	3
Persons		2	1			3



STUDY TOTALS - BY CITY AND HWY CLASS

NBI 13079 & JP 21006(04)

Date Range: 01-01-2007 Thru 12-31-2016

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STUDY TOTALS

Year	HIGHWAY COLLISIONS				CITY STREET COLLISIONS				COUNTY ROAD COLLISIONS				TOTAL COLLISIONS			
	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot
2009			1	1											1	1
2013		1		1										1		1
2016		1		1										1		1
Total:		2	1	3				0				0		2	1	3

County: (67) SEMINOLE

(20) SEMINOLE	HIGHWAY COLLISIONS				CITY STREET COLLISIONS				COUNTY ROAD COLLISIONS				TOTAL COLLISIONS			
	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot
(20) SEMINOLE		2	1	3										2	1	3

* INCLUDES INCAPACITATING, NON-INCAPACITATING, AND POSSIBLE INJURIES.



TABULATION OF COLLISIONS

NBI 13079 & JP 21006(04)

Date Range: 01-01-2007 Thru 12-31-2016

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Collisions By Type Of Collision

Type Of Collision	2007				2008				2009				2010				2011				
	Fat	Inj*	PD	Tot	Fat	Inj*	PD	Tot	Fat	Inj*	PD	Tot	Fat	Inj*	PD	Tot	Fat	Inj*	PD	Tot	
Rear-End (front-to-rear)																					
Head-On (front-to-front)																					
Right Angle (front-to-side)																					
Angle Turning																					
Other Angle																					
Sideswipe Same Direction																					
Sideswipe Opposite Direction											1	1									
Fixed Object																					
Pedestrian																					
Pedal Cycle																					
Animal																					
Overturn/Rollover																					
Vehicle-Train																					
Other Single Vehicle Crash																					
Other																					
Total												1	1								
Percent												33.3	33.3								

Collisions By Type Of Collision

Type Of Collision	2012				2013				2014				2015				2016				
	Fat	Inj*	PD	Tot	Fat	Inj*	PD	Tot	Fat	Inj*	PD	Tot	Fat	Inj*	PD	Tot	Fat	Inj*	PD	Tot	
Rear-End (front-to-rear)																					
Head-On (front-to-front)						1		1													
Right Angle (front-to-side)																					
Angle Turning																					
Other Angle																					
Sideswipe Same Direction																					
Sideswipe Opposite Direction																					
Fixed Object																					
Pedestrian																					
Pedal Cycle																					
Animal																					
Overturn/Rollover																					
Vehicle-Train																					
Other Single Vehicle Crash																					
Other																			1		1
Total							1	1											1		1
Percent							33.3	33.3											33.3		33.3

* INCLUDES INCAPACITATING, NON-INCAPACITATING, AND POSSIBLE INJURIES.



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Collisions By Type Of Collision

Type Of Collision	Total			Tot	Pct
	Fat	Inj *	PD		
Rear-End (front-to-rear)					
Head-On (front-to-front)		1		1	33.3
Right Angle (front-to-side)					
Angle Turning					
Other Angle					
Sideswipe Same Direction					
Sideswipe Opposite Direction			1	1	33.3
Fixed Object					
Pedestrian					
Pedal Cycle					
Animal					
Overturn/Rollover					
Vehicle-Train					
Other Single Vehicle Crash					
Other		1		1	33.3
Total		2	1	3	100
Percent		66.7	33.3	100	

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Date Range: 01-01-2007 Thru 12-31-2016

Program Provided by:
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Units By Unit Type

Unit Type	2007				2008				2009				2010				2011				
	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	
Train																					
Pedestrian																					
Animal																					
Pedal Cycle																					
Parked Vehicle																					
CMV																					
Other Single Vehicle																					
Other Multi-Vehicle													2								2
Total													2								2
Percent													28.6								28.6

Units By Unit Type

Unit Type	2012				2013				2014				2015				2016				
	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	
Train																					
Pedestrian																					
Animal																					
Pedal Cycle																					
Parked Vehicle																			1		1
CMV																					
Other Single Vehicle																					
Other Multi-Vehicle									3			3								1	1
Total									3			3								2	2
Percent									42.9			42.9								28.6	28.6

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TABULATION OF COLLISIONS

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Units By Unit Type

Unit Type	Total			Tot	Pct
	Fat	Inj *	PD		
Train					
Pedestrian					
Animal					
Pedal Cycle					
Parked Vehicle		1		1	14.3
CMV					
Other Single Vehicle					
Other Multi-Vehicle		4	2	6	85.7
Total		5	2	7	100
Percent		71.4	28.6	100	

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TABULATION OF COLLISIONS

NBI 13079 & JP 21006(04)

Date Range: 01-01-2007 Thru 12-31-2016

Program Provided by:
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Vehicles By Vehicle Type

Vehicle Type	2007				2008				2009				2010				2011				
	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	
Passenger Vehicle-2 Door																					
Passenger Vehicle-4 Door											1	1									
Passenger Vehicle-Convertible																					
Pickup Truck											1	1									
Single-Unit Truck (2 axles)																					
Single-Unit Truck (3 or more axles)																					
School Bus																					
Truck/Trailer																					
Truck-Tractor (bobtail)																					
Truck-Tractor/Semi-Trailer																					
Truck-Tractor/Double																					
Truck-Tractor/Triple																					
Bus/Large Van (9-15 seats)																					
Bus (16+ seats)																					
Motorcycle																					
Motor Scooter/Moped																					
Motor Home																					
Farm Machinery																					
ATV																					
Sport Utility Vehicle (SUV)																					
Passenger Van																					
Truck More Than 10,000 lbs.																					
Van (10,000 lbs. or less)																					
Other																					
Total												2	2								
Percent												28.6	28.6								

* INCLUDES INCAPACITATING, NON-INCAPACITATING, AND POSSIBLE INJURIES.

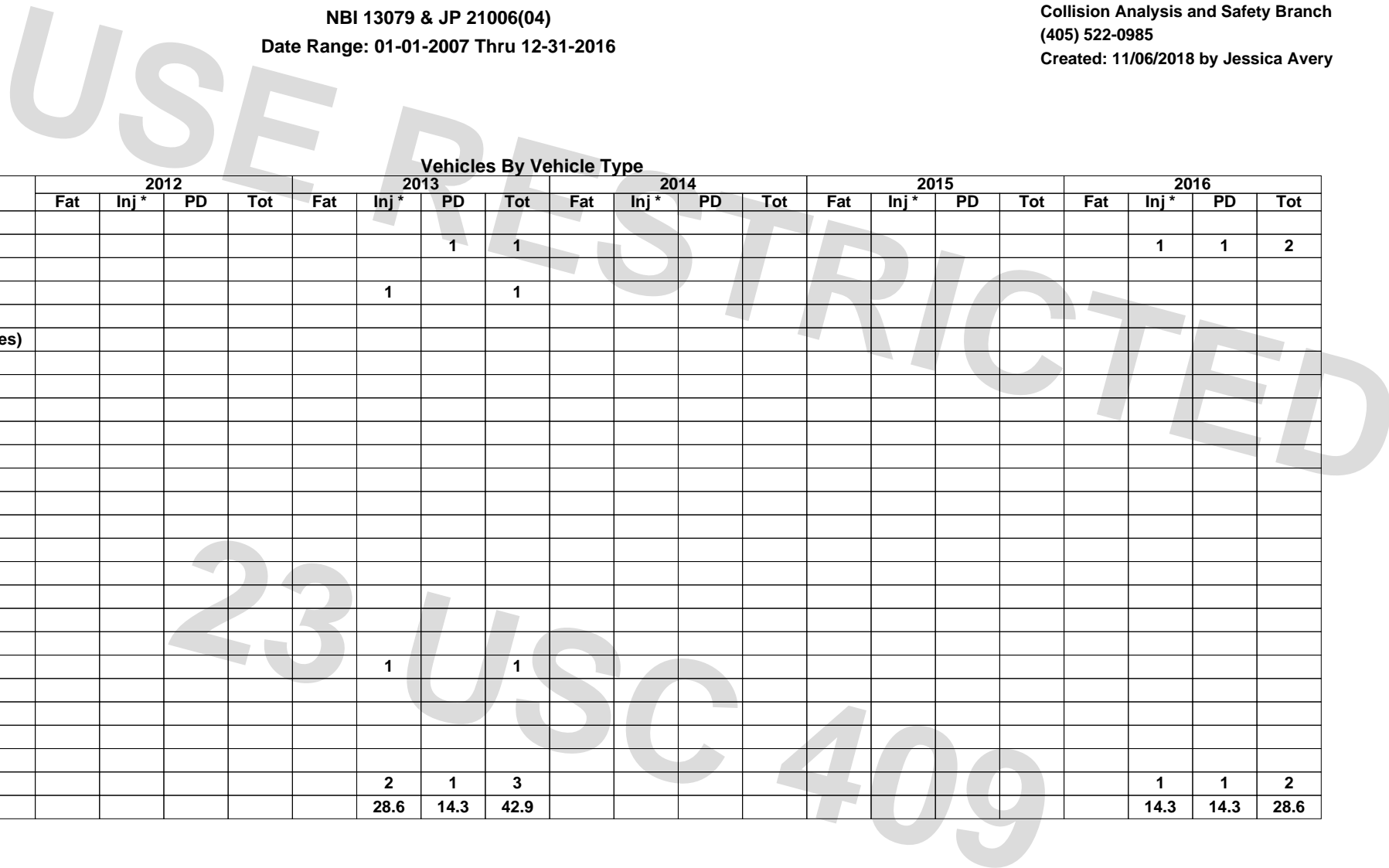


TABULATION OF COLLISIONS

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Vehicles By Vehicle Type

Vehicle Type	2012				2013				2014				2015				2016			
	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot	Fat	Inj *	PD	Tot
Passenger Vehicle-2 Door																				
Passenger Vehicle-4 Door							1	1										1	1	2
Passenger Vehicle-Convertible																				
Pickup Truck						1		1												
Single-Unit Truck (2 axles)																				
Single-Unit Truck (3 or more axles)																				
School Bus																				
Truck/Trailer																				
Truck-Tractor (bobtail)																				
Truck-Tractor/Semi-Trailer																				
Truck-Tractor/Double																				
Truck-Tractor/Triple																				
Bus/Large Van (9-15 seats)																				
Bus (16+ seats)																				
Motorcycle																				
Motor Scooter/Moped																				
Motor Home																				
Farm Machinery																				
ATV																				
Sport Utility Vehicle (SUV)						1		1												
Passenger Van																				
Truck More Than 10,000 lbs.																				
Van (10,000 lbs. or less)																				
Other																				
Total						2	1	3										1	1	2
Percent						28.6	14.3	42.9										14.3	14.3	28.6

* INCLUDES INCAPACITATING, NON-INCAPACITATING, AND POSSIBLE INJURIES.



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Vehicles By Vehicle Type

Vehicle Type	Total			Tot	Pct
	Fat	Inj *	PD		
Passenger Vehicle-2 Door					
Passenger Vehicle-4 Door		1	3	4	57.1
Passenger Vehicle-Convertible					
Pickup Truck		1	1	2	28.6
Single-Unit Truck (2 axles)					
Single-Unit Truck (3 or more axles)					
School Bus					
Truck/Trailer					
Truck-Tractor (bobtail)					
Truck-Tractor/Semi-Trailer					
Truck-Tractor/Double					
Truck-Tractor/Triple					
Bus/Large Van (9-15 seats)					
Bus (16+ seats)					
Motorcycle					
Motor Scooter/Moped					
Motor Home					
Farm Machinery					
ATV					
Sport Utility Vehicle (SUV)		1		1	14.3
Passenger Van					
Truck More Than 10,000 lbs.					
Van (10,000 lbs. or less)					
Other					
Total		3	4	7	100
Percent		42.9	57.1	100	

* INCLUDES INCAPACITATING, NON-INCAPACITATING, AND POSSIBLE INJURIES.



TABULATION OF COLLISIONS

NBI 13079 & JP 21006(04)

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Day And Time Of Occurrence Of Collisions

Day	Hour Of The Day																								Tot	Pcnt		
	AM												PM															
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12				
Sunday																												
Monday																1				1					2	66.7		
Tuesday																												
Wednesday																												
Thursday																												
Friday																												
Saturday	1																								1	33.3		
	Early Morning - Sunrise						Morning Peak						Mid Morning/Afternoon						PM Peak			Evening - Late Night					Tot	Pcnt
Total	1																		1			1					3	100
Percent	33.3																		33.3			33.3					100	

Roadway/Lighting

Roadway Conditions	Lighting Conditions					Total	Percent
	Daylight	Darkness	Twilight	Lighted	Unknown		
Dry	1	1				2	66.7
Wet (Water)		1				1	33.3
Ice, Snow, or Slush							
Mud, Dirt, Gravel, or Sand							
Other							
Total	1	2				3	100
Percent	33.3	66.7				100	

Weather Conditions

Weather Conditions	Total	Percent
Clear	3	100.0
Clouds Present		
Raining/Fog		
Snowing/Sleet/Hail		
Other		
Total	3	100



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Drivers By Driver Conditions

Unsafe/Unlawful	Apparently Normal			Alcohol Involved						Sleep Suspected			Drug Use Indicated			Unknown Condition			Total					
				Ability Impaired			Odor Detected																	
	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Fat	Inj *	PD	Total	Pcnt	
Failed to Yield																								
Failed to Stop																								
Failed to Signal																								
Improper Turn																								
Improper Start																								
Improper Stop																								
Improper Backing																								
Improper Parking																								
Improper Passing																								
Improper Lane Change																								
Left of Center		1	1																	1	1	2	33.3	
Following Too Close																								
Unsafe Speed																								
DWI																								
Inattention																								
Negligent Driving																	1				1		1	16.7
Defective Vehicle																								
Wrong Way																								
No Improper Action		2	1																		2	1	3	50.0
Other																								
Total		3	2														1				4	2	6	100
Percent		50.0	33.3														16.7				66.7	33.3	100	

Severities Indicate Highest Severity in Collision

Collisions By Special Feature

Special Feature	Total			
	Fat	Inj *	PD	Tot
Bridge		1	1	2
Work Zone				
Cross Median				
Train Collision				

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Program Provided by:
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Expected Collision Analysis

NBI 13079 & JP 21006(04)

Time Period: 01-01-2007 to 12-31-2016

Number of Years in Query: 10.01

$$\text{Exp Target Colls} = \left(\frac{1 + (1/K) \text{ Target Colls}}{1 + (1/K) \text{ Pred Colls}} \right) \text{ Pred Colls}$$

Pred Colls = Collisions Predicted by Selected SPF

Target Colls = Collisions that Match Selected SPF

1/K = Overdispersion for Selected SPF

$$\text{Exp Crash Frequency} = \text{Exp Target Colls} / \text{Num Years}$$

$$\text{Exp Crash Density} = \text{Exp Crash Frequency} / \text{Length}$$

$$\text{Exp Crash Rate} = (\text{Exp Crash Density} * 100,000,000) / (\text{ADT} * 365)$$

$$\text{Exp Excess Crash Freq} = (\text{Exp Target Colls} - \text{Pred Colls}) / \text{Num Years}$$

$$\text{Typical Crash Freq} = \text{Pred Colls} / \text{Num Years}$$

$$\text{Exp/Typ Crash Ratio} = \text{Exp Target Colls} / \text{Pred Colls}$$

$$\text{Deviation Probability} = \text{Cumulative Value of Exp Target Colls in Distribution}$$

ANALYSIS PER SUBSECTION

CO	CS	Start	End	Length	ADT	Selected SPF	Queried Colls	Target Colls	Predicted Colls	Over dispersion	Exp Target Colls	Exp Crash Frequency	Exp Crash Density	Exp Crash Rate	Exp Excess Crash Freq	Typical Crash Freq	Exp/Typ Crash Ratio	Deviation Probability
67	02	03.92	04.12	0.20	7700	97: Tab 4 ODOT HWYs Urban 2-3L 2017	3	2	0.58	0.56	0.93	0.09	0.46	16.54	0.03	0.06	1.60	0.82
				0.20	38500		3	2	0.58	0.56	0.93	0.09	0.46	3.31	0.03	0.06	1.60	0.82

Total Expected Target Collisions: 0.93

Total Expected Crash Frequency: 0.09

Overall Expected Crash Density: 0.46

Overall Expected Crash Rate: 3.31

Total Expected Excess Crash Frequency: 0.03

Total Typical Crash Frequency: 0.06

Overall Expected/Typical Crash Ratio: 1.60

Overall Deviation Probability: 0.82



HIGHWAY SYSTEM COLLISION LISTING

NBI 13079 & JP 21006(04)

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Cnty	City	CS #	Int. #	Mile Post	Location	Features	Int. Related	On Map	Dir. 1	Dir. 2	# Veh.	# Inj.*	# Fat.	Type of Collision	Unsafe Unlawful	Lighting Cond.	Roadway Cond.	Severity	Date
(67) SEMINOLE		(20) SEMINOLE		HWY: US-270, BROADWAY AVE.		AT: CARTER CR.													
67	20	02		04.02	CARTER CR.	BRIDGE	NO	Y	E	W	2			SIDESWIPE-OPP	L-CENTER	DYLG	DRY	PDO	12-21-2009
67	20	02		04.02	CARTER CR.	BRIDGE	NO	Y	E	W	3	2		HEAD-ON	L-CENTER	DARK	WET	I INJ	11-25-2013
(67) SEMINOLE		(20) SEMINOLE		HWY: US-270, BROADWAY AVE.		AT: 00.01 after CARTER CR.													
67	20	02		04.03			NO	Y	E	-	2	1		OTHER	NEG-DRVING	DARK	DRY	N-I INJ	12-03-2016

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STUDY CRITERIA

NBI 13079 & JP 21006(04)

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ROADWAY / REGION

QUERY OVER	SELECTIONS
Control Section	County: 67, Control Section: 2, CS Type: hwy, CS Query On: range, Mile Start: 03.92, Mile End: 04.12

DATE

Date Range	01-01-2007 to 12-31-2016
------------	--------------------------

FILTER COLLISIONS

Roadway Type	All Collision Data
Incl. Crashes Assoc. w/ Every Int.	Checked
Environment Fields	

REPORT SECTIONS

Collision Map & Study Totals	(Included)
Collision Analysis Tables	(Included)
- Totals By City, Hwy Class	Checked
- Other Analysis Tables	Checked
Collision Listing	(Included)
- Highway Collision Listing	Checked, By Control Section
- City Street Collision Listing	Checked
- County Road Collision Listing	Checked
Query Criteria	(Included)

REPORT FORMAT OPTIONS

Print Watermark	Checked
Print DPS Case Numbers	Unchecked

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