

SafetyAnalyst

Network Screening Report

May 12, 2011

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Table of Contents

1. Network Screening Report	1
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List of Tables

Table 1. Basic Network Screening (with Sliding Window on roadway segments) 2

1. Network Screening Report

Basic Network Screening

SafetyAnalyst: v4.0.10, packaged: Feb 9, 2011 10:41 AM on sa_dev.ittsystems.com

Data set title: NH State 2009

Data set comment: null

Data set created: Apr 2, 2010 9:54 AM

Roadway Segments: Sliding Window

Accident Severity Level: Total accidents

Site Types: Segments, Intersections

Screening Attribute: Accident Type and Manner of Collision = Collision with parked motor vehicle; Collision with railroad train; Collision with bicyclist; Collision with pedestrian; Collision with animal; Collision with fixed object; Collision with other object; Other single-vehicle collision; Overturn; Fire or explosion; Other single-vehicle non-collision; Rear-end; Head-on; Rear-to-rear; Angle; Sideswipe, same direction; Sideswipe, opposite direction; Other multiple-vehicle collision; Unknown

Potential for Safety Improvement Using: Expected accident frequency

Analysis Period: From 2002 To 2009

Major Reconstruction: No major reconstruction occurred at any sites during the analysis period

Window Length: 0.3 mi

Window Increment: 0.1 mi

Area Weights (Rural): 2.0

Area Weights (Urban): 1.0

Limiting Value (Roadway Segments): 1.0 crashes/mi/yr

Limiting Value (Intersections): 1.0 crashes/yr

Number of sites in the site list: 22

Number of sites evaluated: 22

Number of segments evaluated: 12

Total length of segments evaluated: 3.827

Number of intersections evaluated: 10

Number of ramps evaluated: 0

Number of sites flagged: 21

Table 1. Basic Network Screening (with Sliding Window on roadway segments)

ID	Site Type	Site Subtype	County	Route	Site Start Location	Site End Location	Average Observed Accidents for Entire Site*	Location with Highest Potential for Safety Improvement						Rank	Additional Windows of Interest		
								Average Observed Accidents*	Predicted Accident Frequency*	Expected Accident Frequency*	Variance**	Start Location	End Location			No. of Expected Fatalities	No. of Expected Injuries
14967	Segment	Seg/Urb; Multilane undivided	GRAFTON	SRS0000120__	21.911	22.163	10.60	16.13	7.11	14.40	1.92	22.059	22.359	-	-	1	21.859 - 22.159 21.959 - 22.259 22.159 - 22.459
17408	Segment	Seg/Urb; Multilane undivided	GRAFTON	SRS0000120__	22.163	22.3	17.05	16.13	7.11	14.40	1.92	22.059	22.359	-	-	1	21.959 - 22.259 22.159 - 22.459 22.259 - 22.559
22060	Segment	Seg/Urb; Multilane undivided	GRAFTON	SRS0000120__	22.3	22.416	5.75	16.13	7.11	14.40	1.92	22.059	22.359	-	-	1	22.159 - 22.459 22.259 - 22.559 22.359 - 22.659
40939	Segment	Seg/Urb; Multilane undivided	GRAFTON	SRS0000120__	22.416	22.53	20.49	12.79	11.69	12.63	1.76	22.259	22.559	-	-	4	22.159 - 22.459 22.359 - 22.659 22.459 - 22.759
2697	Segment	Seg/Urb; Multilane undivided	GRAFTON	SRS0000120__	22.53	22.982	6.65	12.79	11.69	12.63	1.76	22.259	22.559	-	-	4	22.359 - 22.659 22.459 - 22.759 22.559 - 22.859 22.659 - 22.959 22.759 - 23.059 22.859 - 23.159 22.959 - 23.259
34488	Segment	Seg/Urb; 2-lane arterial	GRAFTON	SRS0000120__	22.982	24.374	5.12	10.53	11.36	10.66	1.67	22.859	23.159	-	-	6	22.759 - 23.059 22.959 - 23.259 23.059 - 23.359 23.159 - 23.459 23.259 - 23.559 23.359 - 23.659 23.459 - 23.759 23.559 - 23.859 23.659 - 23.959 23.759 - 24.059 23.859 - 24.159 23.959 - 24.259 24.059 - 24.359 24.159 - 24.459 24.259 - 24.559 24.359 - 24.659
48399	Segment	Seg/Urb; 2-lane arterial	GRAFTON	SRS0000120__	25.253	25.517	4.39	9.49	4.77	9.15	1.41	25.459	25.686	-	-	7	24.959 - 25.259 25.059 - 25.359 25.159 - 25.459 25.259 - 25.559 25.359 - 25.659
24594	Segment	Seg/Urb; 2-lane arterial	GRAFTON	SRS0000120__	25.517	25.686	8.82	9.49	4.77	9.15	1.41	25.459	25.686	-	-	7	25.259 - 25.559 25.359 - 25.659
59123	Segment	Seg/Urb; 2-lane arterial	GRAFTON	SRS0000120__	24.374	24.751	5.71	8.84	7.62	8.78	1.41	24.259	24.559	-	-	9	24.159 - 24.459 24.359 - 24.659 24.459 - 24.759 24.559 - 24.859 24.659 - 24.959
20896	Segment	Seg/Urb; Multilane undivided	GRAFTON	SRS0000120__	21.859	21.911	0.00	8.34	6.43	8.40	1.24	21.859	22.159	-	-	10	
35429	Intersection	Int/Urb; 4-leg signalized	GRAFTON	SRS0000120__	24.374		6.50	6.50	4.29	6.25	0.97	-	-	-	-	11	
1958	Intersection	Int/Urb; 4-leg signalized	GRAFTON	SRS0000120__	22.3		5.97	5.97	4.15	5.76	0.89	-	-	-	-	12	
46100	Intersection	Int/Urb; 4-leg signalized	GRAFTON	SRS0000120__	22.53		5.27	5.27	4.60	5.20	0.82	-	-	-	-	13	
18234	Intersection	Int/Urb; 4-leg signalized	GRAFTON	SRS0000120__	22.982		4.39	4.39	3.94	4.33	0.67	-	-	-	-	14	
3391	Segment	Seg/Urb; 2-lane arterial	GRAFTON	SRS0000120__	24.751	25.194	1.12	3.87	7.54	3.99	0.64	24.459	24.759	-	-	15	24.559 - 24.859 24.659 - 24.959 24.759 - 25.059 24.859 - 25.159 24.959 - 25.259 25.059 - 25.359 25.159 - 25.459
51424	Intersection	Int/Urb; 4-leg minor-rd STOP	GRAFTON	SRS0000120__	22.163		2.81	2.81	1.51	2.66	0.39	-	-	-	-	16	
5523	Segment	Seg/Urb; 2-lane arterial	GRAFTON	SRS0000120__	25.194	25.253	2.81	2.21	4.77	2.42	0.38	25.159	25.459	-	-	17	24.959 - 25.259 25.059 - 25.359
72807	Intersection	Int/Urb; 3-leg signalized	GRAFTON	SRS0000120__	25.253		2.50	2.50	1.56	2.19	0.26	-	-	-	-	18	
64926	Intersection	Int/Urb; 3-leg signalized	GRAFTON	SRS0000120__	25.686		1.60	1.60	2.17	1.75	0.23	-	-	-	-	19	
12970	Intersection	Int/Urb; 3-leg minor-rd STOP	GRAFTON	SRS0000120__	22.416		1.31	1.31	0.56	1.17	0.16	-	-	-	-	20	
51337	Intersection	Int/Urb; 3-leg minor-rd STOP	GRAFTON	SRS0000120__	21.911		1.31	1.31	0.45	1.11	0.14	-	-	-	-	21	

Total Roadway Segments Ranked = 12 out of 12 total segments in sitelist.

Total Roadway Segment Length Ranked = 3.827 out of 3.827 total segment length in sitelist.

Percentage of Roadway Segment Length Ranked = 100.0

Number of Intersections Ranked = 9 out of 10 total intersections in sitelist.

Percentage of Intersections Ranked = 90.0

Number of Ramps Ranked = 0 out of 0 total ramps in sitelist.

Percentage of Ramps Ranked = ?

* Units for Observed, Predicted and Excess Accident Frequency

- Roadway Segments (crashes/mi/yr)
- Intersections (crashes/yr)
- Ramps (crashes/mi/yr)

** Units for Variance

- Roadway Segments (crashes/mi**2/yr)
- Intersections (crashes/yr)
- Ramps (crashes/mi**2/yr)