

**USH 53: STH 29 TO USH 12 (EAU CLAIRE AND CHIPPEWA COUNTIES)  
NIGHTTIME CLOSURE  
DIVERSION ROUTE: STH 312 - BUS 53**

**MAY**  
Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**  
FRIDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH							
	MAIN ROUTE		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	80	0.0	38	0.0	1500	80	0	38	0.43	0	66.3	58.9	45.1	32.4	32.4
1-2 AM	66	0.0	30	0.0	1500	66	0	30	0.43	0	66.3	58.9	45.2	32.5	32.5
2-3 AM	66	0.0	30	0.0	1500	66	0	30	0.43	0	66.3	58.9	45.2	32.5	32.5
3-4 AM	64	0.0	29	0.0	1500	64	0	29	0.43	0	66.3	58.9	45.2	32.5	32.5
4-5 AM	130	0.0	60	0.0	1500	130	0	60	0.44	0	66.1	58.7	45.0	32.2	32.2
5-6 AM	445	0.0	206	0.0	OFF	445	0	206	0.00	0	65.6	65.6	65.6	30.3	30.3
6-7 AM	876	0.0	406	0.0	OFF	876	0	406	0.00	0	64.8	64.8	64.8	27.8	27.8
7-8 AM	1628	0.0	755	0.0	OFF	1628	0	755	0.00	0	63.3	63.3	63.3	23.4	23.4
8-9 AM	1163	0.0	539	0.0	OFF	1163	0	539	0.00	0	64.2	64.2	64.2	26.1	26.1
9-10 AM	1027	0.0	476	0.0	OFF	1027	0	476	0.00	0	64.5	64.5	64.5	27.0	27.0
10-11 AM	1059	0.0	491	0.0	OFF	1059	0	491	0.00	0	64.4	64.4	64.4	26.8	26.8
11A-NOON	1102	0.0	510	0.0	OFF	1102	0	510	0.00	0	64.3	64.3	64.3	26.5	26.5
NOON-1PM	1131	0.0	525	0.0	OFF	1131	0	525	0.00	0	64.3	64.3	64.3	26.3	26.3
1-2 PM	1109	0.0	514	0.0	OFF	1109	0	514	0.00	0	64.3	64.3	64.3	26.5	26.5
2-3 PM	1199	0.0	556	0.0	OFF	1199	0	556	0.00	0	64.1	64.1	64.1	26.0	26.0
3-4 PM	1396	0.0	647	0.0	OFF	1396	0	647	0.00	0	63.8	63.8	63.8	24.8	24.8
4-5 PM	1589	0.0	737	0.0	OFF	1589	0	737	0.00	0	63.4	63.4	63.4	23.7	23.7
5-6 PM	1448	0.0	671	0.0	OFF	1448	0	671	0.00	0	63.7	63.7	63.7	24.5	24.5
6-7 PM	1058	0.0	490	0.0	OFF	1058	0	490	0.00	0	64.4	64.4	64.4	26.8	26.8
7-8 PM	730	0.0	339	0.0	1500	730	0	339	0.49	0	65.0	57.0	42.7	28.6	28.6
8-9 PM	521	0.0	241	0.0	1500	521	0	241	0.47	0	65.4	57.6	43.4	29.9	29.9
9-10 PM	419	0.0	195	0.0	1500	419	0	195	0.46	0	65.6	57.9	43.8	30.5	30.5
10-11 PM	308	0.0	143	0.0	1500	308	0	143	0.45	0	65.8	58.2	44.3	31.1	31.1
11PM-MID	231	0.0	108	0.0	1500	231	0	108	0.44	0	66.0	58.4	44.6	31.5	31.5

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0114
MAIN ROUTE WITH WORKS	0.0112
DIVERSION	0.0721

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$263
CONGESTED HOURS PER DAY*	0

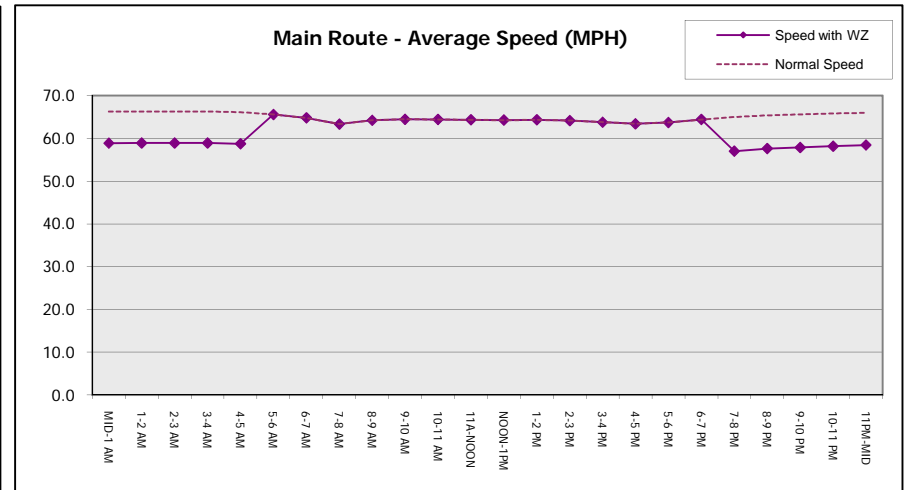
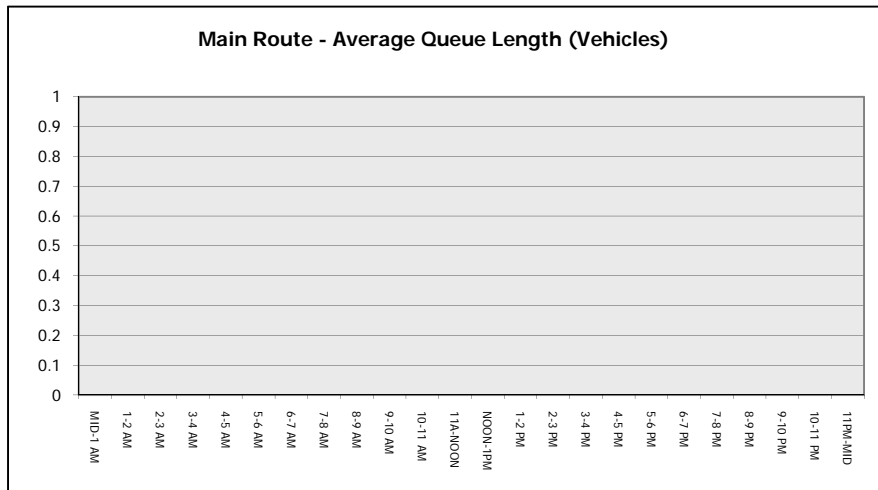
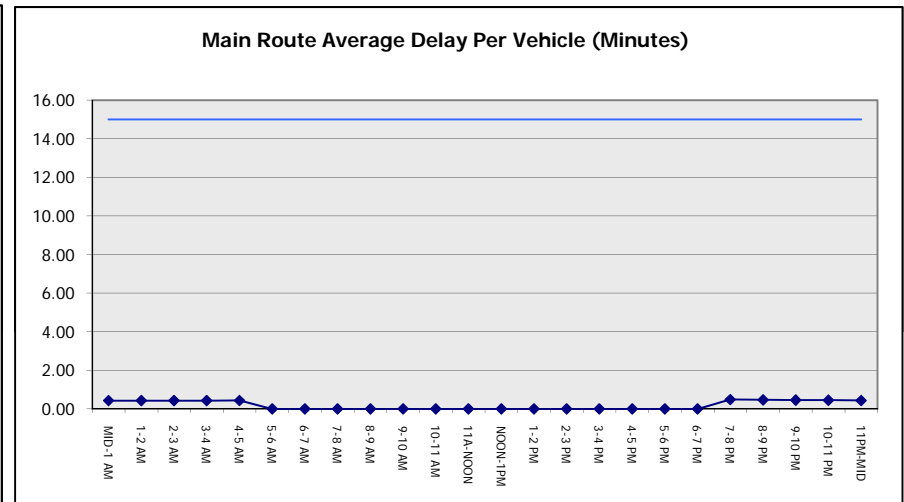
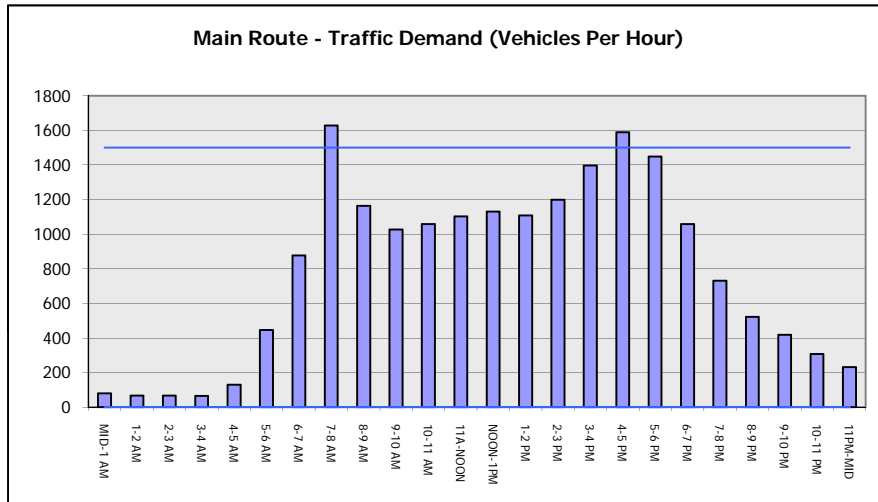
\*Delays Exceeding 15 Minutes

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**NIGHTTIME CLOSURE**  
**DIVERSION ROUTE: STH 312 - BUS 53**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY SOUTHBOUND DIRECTION**



<b>USH 53: STH 29 TO USH 12 (EAU CLAIRE AND CHIPPEWA COUNTIES)</b> <b>NIGHTTIME CLOSURE</b> <b>DIVERSION ROUTE: STH 312 - BUS 53</b>	<b>MAY</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY                      NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	129	0.0	60	0.0	1500	129	0	60	0.43	0	66.1	58.7	45.0	31.4	31.4
1-2 AM	93	0.0	44	0.0	1500	93	0	44	0.43	0	66.2	58.8	45.1	31.8	31.8
2-3 AM	84	0.0	39	0.0	1500	84	0	39	0.43	0	66.2	58.9	45.1	31.9	31.9
3-4 AM	82	0.0	39	0.0	1500	82	0	39	0.43	0	66.3	58.9	45.1	31.9	31.9
4-5 AM	135	0.0	63	0.0	1500	135	0	63	0.44	0	66.1	58.7	45.0	31.4	31.4
5-6 AM	291	0.0	135	0.0	OFF	291	0	135	0.00	0	65.8	65.8	65.8	29.5	29.5
6-7 AM	708	0.0	329	0.0	OFF	708	0	329	0.00	0	65.1	65.1	65.1	24.7	24.7
7-8 AM	1134	0.0	526	0.0	OFF	1134	0	526	0.00	0	64.3	64.3	64.3	20.2	20.2
8-9 AM	922	0.0	427	0.0	OFF	922	0	427	0.00	0	64.6	64.6	64.6	22.2	22.2
9-10 AM	914	0.0	424	0.0	OFF	914	0	424	0.00	0	64.7	64.7	64.7	22.2	22.2
10-11 AM	1044	0.0	484	0.0	OFF	1044	0	484	0.00	0	64.5	64.5	64.5	21.0	21.0
11A-NOON	1168	0.0	542	0.0	OFF	1168	0	542	0.00	0	64.2	64.2	64.2	19.9	19.9
NOON-1PM	1312	0.0	608	0.0	OFF	1312	0	608	0.00	0	64.0	64.0	64.0	18.6	18.6
1-2 PM	1446	0.0	670	0.0	OFF	1446	0	670	0.00	0	63.7	63.7	63.7	17.5	17.5
2-3 PM	1654	0.0	766	0.0	OFF	1654	0	766	0.00	0	63.3	63.3	63.3	15.6	15.6
3-4 PM	1875	0.0	870	0.0	OFF	1875	0	870+	0.00	0	62.9	62.9	62.9	13.5	13.5
4-5 PM	2106	0.0	976	0.0	OFF	2106	0	976+	0.00	0	62.5	62.5	62.5	11.9	11.9
5-6 PM	1925	0.0	893	0.0	OFF	1925	0	893+	0.00	0	62.8	62.8	62.8	13.0	13.0
6-7 PM	1338	0.0	621	0.0	OFF	1338	0	621	0.00	0	63.9	63.9	63.9	18.4	18.4
7-8 PM	1053	0.0	488	0.0	1500	1053	0	488	0.52	0	64.4	56.1	41.5	20.9	20.9
8-9 PM	890	0.0	413	0.0	1500	890	0	413	0.51	0	64.7	56.6	42.0	22.5	22.5
9-10 PM	766	0.0	355	0.0	1500	766	0	355	0.50	0	65.0	56.9	42.5	24.0	24.0
10-11 PM	519	0.0	240	0.0	1500	519	0	240	0.47	0	65.4	57.6	43.4	26.9	26.9
11PM-MID	326	0.0	151	0.0	1500	326	0	151	0.45	0	65.8	58.2	44.2	29.1	29.1

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0133
MAIN ROUTE WITH WORKS	0.0130
DIVERSION	0.0838

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$434
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 53: STH 29 TO USH 12 (EAU CLAIRE AND CHIPPEWA COUNTIES)  
NIGHTTIME CLOSURE  
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**FRIDAY NORTHBOUND DIRECTION**

