

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

AUGUST
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	99	0.0	46	0.0	1500	99	0	46	0.43	0	66.2	58.8	45.1	32.4	32.4
1-2 AM	76	0.0	36	0.0	1500	76	0	36	0.43	0	66.3	58.9	45.2	32.5	32.5
2-3 AM	61	0.0	28	0.0	1500	61	0	28	0.43	0	66.3	58.9	45.3	32.5	32.5
3-4 AM	66	0.0	30	0.0	1500	66	0	30	0.43	0	66.3	58.9	45.2	32.5	32.5
4-5 AM	129	0.0	60	0.0	1500	129	0	60	0.43	0	66.1	58.7	45.0	32.2	32.2
5-6 AM	461	0.0	214	0.0	OFF	461	0	214	0.00	0	65.5	65.5	65.5	30.2	30.2
6-7 AM	904	0.0	419	0.0	OFF	904	0	419	0.00	0	64.7	64.7	64.7	27.6	27.6
7-8 AM	1415	0.0	656	0.0	OFF	1415	0	656	0.00	0	63.8	63.8	63.8	24.7	24.7
8-9 AM	1029	0.0	477	0.0	OFF	1029	0	477	0.00	0	64.5	64.5	64.5	27.0	27.0
9-10 AM	1046	0.0	485	0.0	OFF	1046	0	485	0.00	0	64.5	64.5	64.5	26.8	26.8
10-11 AM	1181	0.0	547	0.0	OFF	1181	0	547	0.00	0	64.2	64.2	64.2	26.0	26.0
11A-NOON	1241	0.0	575	0.0	OFF	1241	0	575	0.00	0	64.1	64.1	64.1	25.7	25.7
NOON-1PM	1251	0.0	579	0.0	OFF	1251	0	579	0.00	0	64.0	64.0	64.0	25.6	25.6
1-2 PM	1235	0.0	572	0.0	OFF	1235	0	572	0.00	0	64.1	64.1	64.1	25.7	25.7
2-3 PM	1335	0.0	619	0.0	OFF	1335	0	619	0.00	0	63.9	63.9	63.9	25.2	25.2
3-4 PM	1404	0.0	650	0.0	OFF	1404	0	650	0.00	0	63.8	63.8	63.8	24.7	24.7
4-5 PM	1448	0.0	671	0.0	OFF	1448	0	671	0.00	0	63.7	63.7	63.7	24.5	24.5
5-6 PM	1297	0.0	602	0.0	OFF	1297	0	602	0.00	0	64.0	64.0	64.0	25.3	25.3
6-7 PM	950	0.0	440	0.0	OFF	950	0	440	0.00	0	64.6	64.6	64.6	27.4	27.4
7-8 PM	714	0.0	331	0.0	1500	714	0	331	0.49	0	65.1	57.1	42.7	28.8	28.8
8-9 PM	528	0.0	245	0.0	1500	528	0	245	0.47	0	65.4	57.6	43.4	29.9	29.9
9-10 PM	455	0.0	211	0.0	1500	455	0	211	0.47	0	65.5	57.8	43.7	30.2	30.2
10-11 PM	330	0.0	153	0.0	1500	330	0	153	0.45	0	65.8	58.1	44.2	31.0	31.0
11PM-MID	230	0.0	107	0.0	1500	230	0	107	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	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	0.0114
MAIN ROUTE WITH WORKS	0.0113
DIVERSION	0.0722

PIA: Personal Injury Accidents

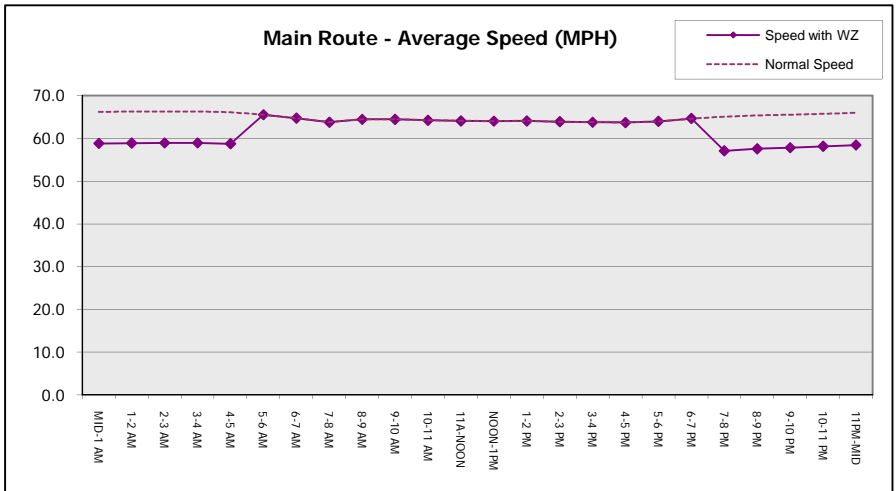
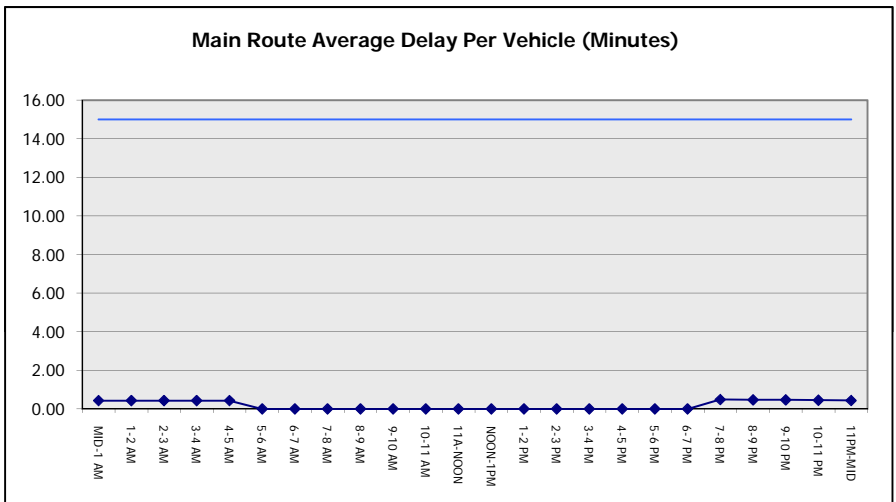
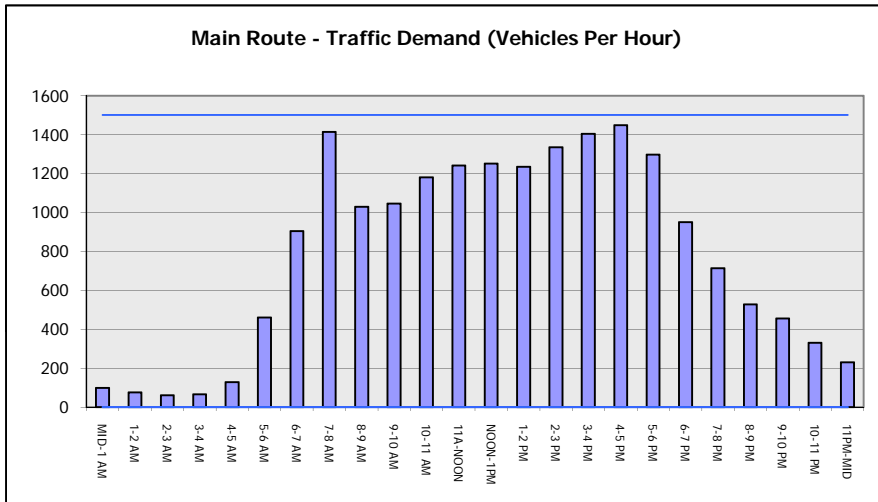
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$270
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

AUGUST
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



USH 53: STH 29 TO USH 12 (EAU CLAIRE AND CHIPPEWA COUNTIES) NIGHTTIME CLOSURE DIVERSION ROUTE: STH 312 - BUS 53	AUGUST
	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	138	0.0	64	0.0	1500	138	0	64	0.44	0	66.1	58.7	45.0	31.3	31.3
1-2 AM	95	0.0	45	0.0	1500	95	0	45	0.43	0	66.2	58.8	45.1	31.8	31.8
2-3 AM	86	0.0	40	0.0	1500	86	0	40	0.43	0	66.2	58.9	45.1	31.9	31.9
3-4 AM	84	0.0	40	0.0	1500	84	0	40	0.43	0	66.2	58.9	45.1	31.9	31.9
4-5 AM	148	0.0	69	0.0	1500	148	0	69	0.44	0	66.1	58.7	44.9	31.2	31.2
5-6 AM	315	0.0	146	0.0	OFF	315	0	146	0.00	0	65.8	65.8	65.8	29.2	29.2
6-7 AM	686	0.0	318	0.0	OFF	686	0	318	0.00	0	65.1	65.1	65.1	25.0	25.0
7-8 AM	990	0.0	459	0.0	OFF	990	0	459	0.00	0	64.5	64.5	64.5	21.5	21.5
8-9 AM	888	0.0	412	0.0	OFF	888	0	412	0.00	0	64.7	64.7	64.7	22.5	22.5
9-10 AM	928	0.0	430	0.0	OFF	928	0	430	0.00	0	64.6	64.6	64.6	22.1	22.1
10-11 AM	1105	0.0	512	0.0	OFF	1105	0	512	0.00	0	64.3	64.3	64.3	20.4	20.4
11A-NOON	1298	0.0	602	0.0	OFF	1298	0	602	0.00	0	64.0	64.0	64.0	18.8	18.8
NOON-1PM	1421	0.0	660	0.0	OFF	1421	0	660	0.00	0	63.7	63.7	63.7	17.6	17.6
1-2 PM	1576	0.0	731	0.0	OFF	1576	0	731	0.00	0	63.5	63.5	63.5	16.3	16.3
2-3 PM	1823	0.0	845	0.0	OFF	1823	0	845+	0.00	0	63.0	63.0	63.0	14.0	14.0
3-4 PM	1971	0.0	914	0.0	OFF	1971	0	914+	0.00	0	62.7	62.7	62.7	12.7	12.7
4-5 PM	2144	0.0	993	0.0	OFF	2144	0	993+	0.00	0	62.4	62.4	62.4	11.7	11.7
5-6 PM	1886	0.0	875	0.0	OFF	1886	0	875+	0.00	0	62.8	62.8	62.8	13.4	13.4
6-7 PM	1394	0.0	646	0.0	OFF	1394	0	646	0.00	0	63.8	63.8	63.8	17.9	17.9
7-8 PM	1059	0.0	491	0.0	1500	1059	0	491	0.52	0	64.4	56.1	41.5	20.9	20.9
8-9 PM	902	0.0	418	0.0	1500	902	0	418	0.51	0	64.7	56.5	42.0	22.4	22.4
9-10 PM	716	0.0	332	0.0	1500	716	0	332	0.49	0	65.1	57.1	42.7	24.6	24.6
10-11 PM	470	0.0	218	0.0	1500	470	0	218	0.47	0	65.5	57.8	43.6	27.4	27.4
11PM-MID	308	0.0	143	0.0	1500	308	0	143	0.45	0	65.8	58.2	44.3	29.3	29.3

"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	0.0136
MAIN ROUTE WITH WORKS	0.0133
DIVERSION	0.0858

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$425
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

AUGUST
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FRIDAY NORTHBOUND DIRECTION

