

**USH 53: STH 29 TO USH 12 (EAU CLAIRE AND CHIPPEWA COUNTIES)  
CONTINUOUS (24 HOUR) 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	1500	461	0	214	0.47	0	65.5	57.8	43.7	30.2	30.2
6-7 AM	904	0.0	419	0.0	1500	904	0	419	0.51	0	64.7	56.5	42.0	27.6	27.6
7-8 AM	1415	0.0	656	0.0	1500	1415	0	656	0.91	0	63.8	50.7	32.6	24.7	24.7
8-9 AM	1029	0.0	477	0.0	1500	1029	0	477	0.52	0	64.5	56.2	41.6	27.0	27.0
9-10 AM	1046	0.0	485	0.0	1500	1046	0	485	0.52	0	64.5	56.1	41.5	26.8	26.8
10-11 AM	1181	0.0	547	0.0	1500	1181	0	547	0.61	0	64.2	54.8	39.1	26.0	26.0
11A-NOON	1241	0.0	575	0.0	1500	1241	0	575	0.69	0	64.1	53.7	37.2	25.7	25.7
NOON-1PM	1251	0.0	579	0.0	1500	1251	0	579	0.70	0	64.0	53.5	36.9	25.6	25.6
1-2 PM	1235	0.0	572	0.0	1500	1235	0	572	0.68	0	64.1	53.8	37.4	25.7	25.7
2-3 PM	1335	0.0	619	0.0	1500	1335	0	619	0.81	0	63.9	52.0	34.6	25.2	25.2
3-4 PM	1404	0.0	650	0.0	1500	1404	0	650	0.90	0	63.8	50.9	32.9	24.7	24.7
4-5 PM	1448	0.0	671	0.0	1500	1448	0	671	0.96	0	63.7	50.2	31.9	24.5	24.5
5-6 PM	1297	0.0	602	0.0	1500	1297	0	602	0.76	0	64.0	52.7	35.6	25.3	25.3
6-7 PM	950	0.0	440	0.0	1500	950	0	440	0.51	0	64.6	56.4	41.9	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

*----- 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	0.0102
DIVERSION	0.0722

PIA: Personal Injury Accidents

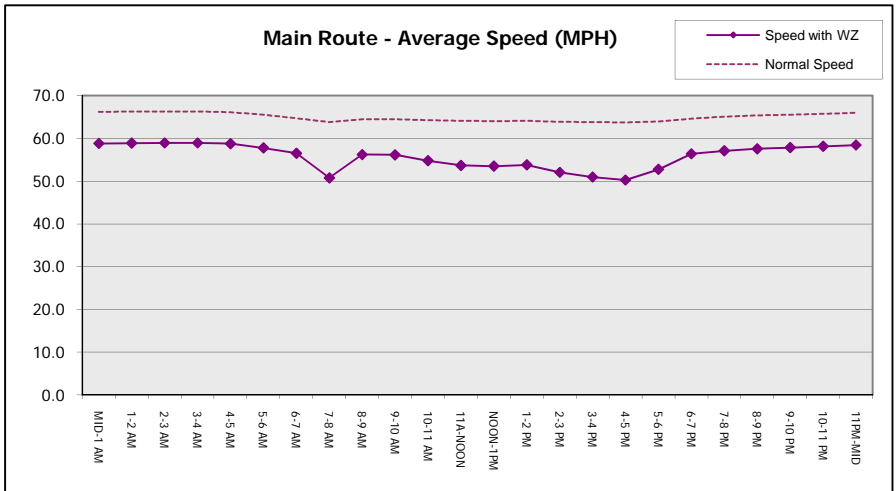
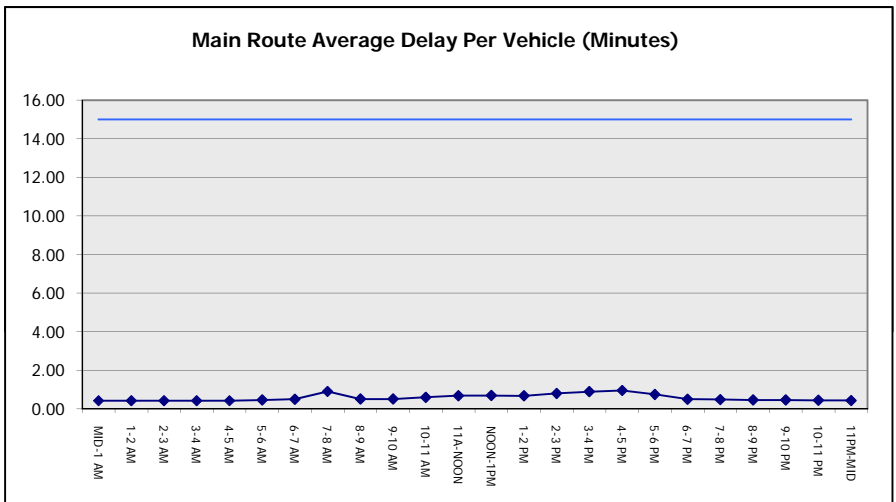
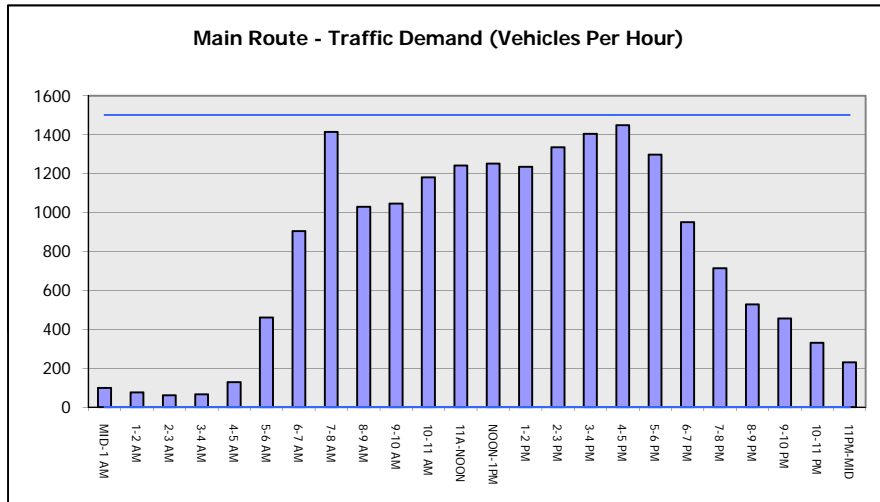
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$3,099
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 53: STH 29 TO USH 12 (EAU CLAIRE AND CHIPPEWA COUNTIES)**  
**CONTINUOUS (24 HOUR) CLOSURE**  
**DIVERSION ROUTE: STH 312 - BUS 53**

**AUGUST**  
 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) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 312 - BUS 53</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
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	1500	315	0	146	0.45	0	65.8	58.2	44.2	29.2	29.2
6-7 AM	686	0.0	318	0.0	1500	686	0	318	0.49	0	65.1	57.1	42.8	25.0	25.0
7-8 AM	990	0.0	459	0.0	1500	990	0	459	0.52	0	64.5	56.3	41.7	21.5	21.5
8-9 AM	888	0.0	412	0.0	1500	888	0	412	0.51	0	64.7	56.6	42.1	22.5	22.5
9-10 AM	928	0.0	430	0.0	1500	928	0	430	0.51	0	64.6	56.4	41.9	22.1	22.1
10-11 AM	1105	0.0	512	0.0	1500	1105	0	512	0.53	0	64.3	56.0	41.3	20.4	20.4
11A-NOON	1298	0.0	602	0.0	1500	1298	0	602	0.76	0	64.0	52.7	35.6	18.8	18.8
NOON-1PM	1421	0.0	660	0.0	1499	1421	0	660	0.92	0	63.7	50.7	32.5	17.6	17.6
1-2 PM	1576	0.0	731	0.0	1499	1576	0	731	1.87	25	63.5	41.7	30.8	16.3	16.3
2-3 PM	1823	0.0	845	0.0	1500	1823	0	845+	8.54	224	63.0	18.8	30.8	14.0	14.0
3-4 PM	1971	0.0	914	0.0	1500	1817	155	1069+	23.20	610	62.7	9.4	30.9	12.7	13.0
4-5 PM	2144	0.0	993	0.0	1500	1520	624	1617+	28.42	741	62.4	8.6	30.8	11.7	12.4
5-6 PM	1886	0.0	875	0.0	1499	1504	382	1257+	28.41	740	62.8	8.6	30.8	13.4	12.4
6-7 PM	1394	0.0	646	0.0	1499	1172	222	868+	22.57	588	63.8	9.6	30.8	17.9	14.4
7-8 PM	1059	0.0	491	0.0	1499	1053	6	497	6.04	202	64.4	23.8	35.7	20.9	20.7
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

+ 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	0.0113
DIVERSION	0.0973

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$53,987
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: STH 312 - BUS 53**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

