

**USH 53: STH 29 TO USH 12 (EAU CLAIRE AND CHIPPEWA COUNTIES)
CONTINUOUS (24 HOUR) 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	1500	445	0	206	0.47	0	65.6	57.8	43.7	30.3	30.3
6-7 AM	876	0.0	406	0.0	1500	876	0	406	0.51	0	64.8	56.6	42.1	27.8	27.8
7-8 AM	1628	0.0	755	0.0	1499	1628	0	755	2.84	55	63.3	35.4	30.8	23.4	23.4
8-9 AM	1163	0.0	539	0.0	1500	1163	0	539	1.48	31	64.2	45.3	37.8	26.1	26.1
9-10 AM	1027	0.0	476	0.0	1500	1027	0	476	0.52	0	64.5	56.2	41.6	27.0	27.0
10-11 AM	1059	0.0	491	0.0	1500	1059	0	491	0.52	0	64.4	56.1	41.5	26.8	26.8
11A-NOON	1102	0.0	510	0.0	1500	1102	0	510	0.53	0	64.3	56.0	41.3	26.5	26.5
NOON-1PM	1131	0.0	525	0.0	1500	1131	0	525	0.55	0	64.3	55.7	40.8	26.3	26.3
1-2 PM	1109	0.0	514	0.0	1500	1109	0	514	0.53	0	64.3	56.0	41.3	26.5	26.5
2-3 PM	1199	0.0	556	0.0	1500	1199	0	556	0.64	0	64.1	54.4	38.5	26.0	26.0
3-4 PM	1396	0.0	647	0.0	1499	1396	0	647	0.89	0	63.8	51.1	33.1	24.8	24.8
4-5 PM	1589	0.0	737	0.0	1499	1589	0	737	2.49	42	63.4	37.4	30.8	23.7	23.7
5-6 PM	1448	0.0	671	0.0	1499	1448	0	671	3.91	79	63.7	30.5	31.1	24.5	24.5
6-7 PM	1058	0.0	490	0.0	1500	1058	0	490	0.60	1	64.4	55.0	40.9	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

----- 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	0.0102
DIVERSION	0.0721

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

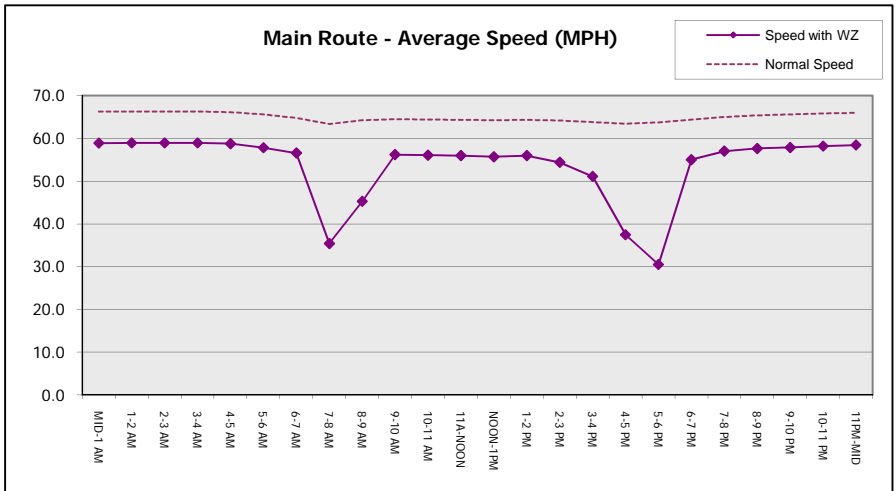
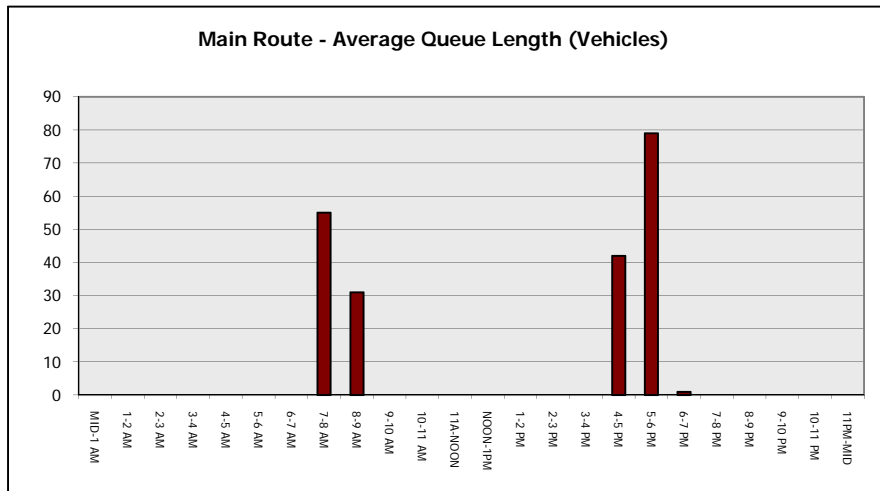
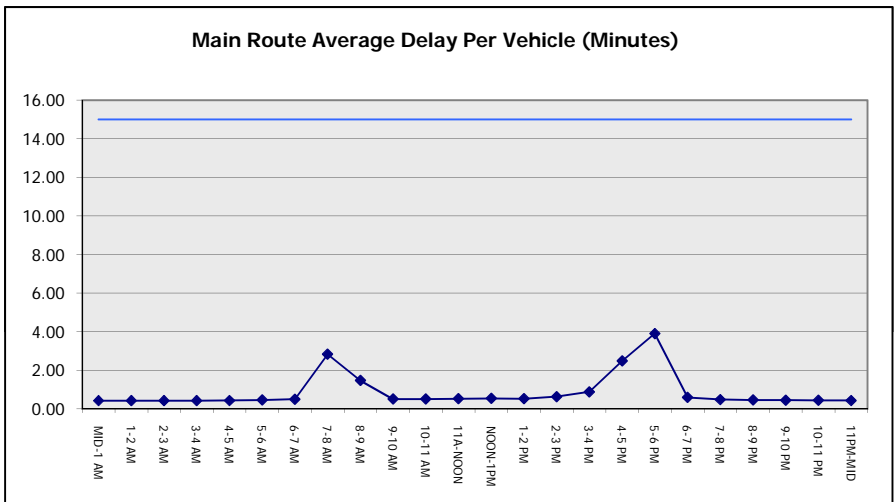
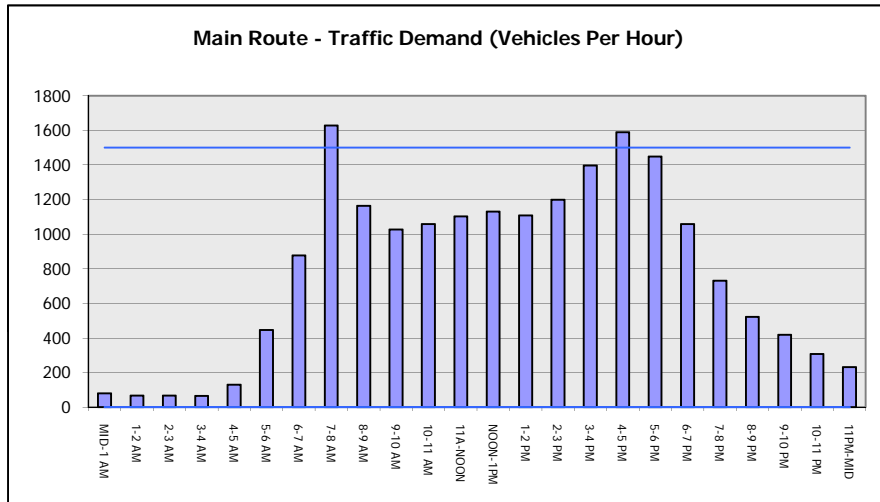
ROAD USER COSTS PER DAY (DOLLARS)	\$5,609
CONGESTED HOURS PER DAY*	0

*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

MAY
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



USH 53: STH 29 TO USH 12 (EAU CLAIRE AND CHIPPEWA COUNTIES) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 312 - BUS 53	MAY
	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			AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVERTING	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	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	1500	291	0	135	0.45	0	65.8	58.2	44.3	29.5	29.5
6-7 AM	708	0.0	329	0.0	1500	708	0	329	0.49	0	65.1	57.1	42.7	24.7	24.7
7-8 AM	1134	0.0	526	0.0	1500	1134	0	526	0.55	0	64.3	55.6	40.7	20.2	20.2
8-9 AM	922	0.0	427	0.0	1500	922	0	427	0.51	0	64.6	56.4	42.0	22.2	22.2
9-10 AM	914	0.0	424	0.0	1500	914	0	424	0.51	0	64.7	56.5	42.0	22.2	22.2
10-11 AM	1044	0.0	484	0.0	1500	1044	0	484	0.52	0	64.5	56.1	41.5	21.0	21.0
11A-NOON	1168	0.0	542	0.0	1500	1168	0	542	0.59	0	64.2	55.0	39.5	19.9	19.9
NOON-1PM	1312	0.0	608	0.0	1500	1312	0	608	0.78	0	64.0	52.5	35.2	18.6	18.6
1-2 PM	1446	0.0	670	0.0	1499	1446	0	670	0.95	0	63.7	50.3	32.0	17.5	17.5
2-3 PM	1654	0.0	766	0.0	1499	1654	0	766	3.06	63	63.3	34.2	30.8	15.6	15.6
3-4 PM	1875	0.0	870	0.0	1500	1875	0	870+	12.25	327	62.9	14.4	30.8	13.5	13.5
4-5 PM	2106	0.0	976	0.0	1499	1712	394	1370+	26.96	703	62.5	8.8	30.8	11.9	12.5
5-6 PM	1925	0.0	893	0.0	1499	1499	425	1318+	28.41	740	62.8	8.6	30.8	13.0	12.4
6-7 PM	1338	0.0	621	0.0	1499	1125	213	834+	21.45	561	63.9	9.9	30.8	18.4	15.0
7-8 PM	1053	0.0	488	0.0	1499	1053	0	488	4.54	162	64.4	28.3	36.7	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

+ 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	0.0113
DIVERSION	0.0923

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$43,256
CONGESTED HOURS PER DAY*	3

*Delays Exceeding 15 Minutes

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

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

