

**STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: PROSPECT AVENUE - STH 47**

AUGUST

Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY WESTBOUND 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	404	0.0	124	0.0	1500	404	0	124	0.46	0	65.6	46.2	43.9	23.9	23.9
1-2 AM	215	0.0	66	0.0	1500	215	0	66	0.44	0	66.0	46.9	44.6	24.3	24.3
2-3 AM	179	0.0	55	0.0	1500	179	0	55	0.44	0	66.1	47.1	44.8	24.4	24.4
3-4 AM	168	0.0	51	0.0	1500	168	0	51	0.44	0	66.1	47.1	44.8	24.5	24.5
4-5 AM	286	0.0	87	0.0	1500	286	0	87	0.45	0	65.8	46.6	44.3	24.2	24.2
5-6 AM	499	0.0	153	0.0	1500	499	0	153	0.47	0	65.5	45.8	43.5	23.7	23.7
6-7 AM	673	0.0	206	0.0	1500	673	0	206	0.49	0	65.1	45.2	42.8	23.3	23.3
7-8 AM	998	0.0	306	0.0	1500	998	0	306	0.52	0	64.5	44.0	41.7	22.5	22.5
8-9 AM	1280	0.0	392	0.0	1499	1280	0	392	0.73	0	64.0	38.7	36.2	21.9	21.9
9-10 AM	1590	0.0	488	0.0	1499	1590	0	488	1.91	29	63.4	24.1	30.8	21.1	21.2
10-11 AM	1783	0.0	547	0.0	1500	1783	0	547	8.97	227	63.1	10.2	30.8	20.6	21.6
11A-NOON	1745	0.0	535	0.0	1499	1663	82	617	18.71	479	63.2	7.3	30.8	20.7	22.2
NOON-1PM	1731	0.0	530	0.0	1499	1497	233	763	20.96	538	63.2	7.1	30.8	20.8	21.3
1-2 PM	1642	0.0	503	0.0	1499	1473	168	672	20.17	516	63.3	7.1	30.8	21.0	21.9
2-3 PM	1631	0.0	500	0.0	1500	1497	135	635	19.85	508	63.3	7.2	30.8	21.0	22.2
3-4 PM	1533	0.0	470	0.0	1500	1469	64	534	19.07	486	63.5	7.3	30.8	21.2	22.9
4-5 PM	1391	0.0	426	0.0	1499	1391	0	426	16.73	424	63.8	7.6	30.8	21.5	23.5
5-6 PM	1344	0.0	412	0.0	1500	1344	0	412	11.82	293	63.9	8.8	30.8	21.7	23.0
6-7 PM	1122	0.0	344	0.0	1499	1122	0	344	1.74	65	64.3	27.0	37.8	22.2	22.5
7-8 PM	897	0.0	275	0.0	1500	897	0	275	0.51	0	64.7	44.4	42.0	22.7	22.7
8-9 PM	755	0.0	232	0.0	1500	755	0	232	0.50	0	65.0	44.9	42.5	23.0	23.0
9-10 PM	752	0.0	231	0.0	1500	752	0	231	0.50	0	65.0	44.9	42.5	23.1	23.1
10-11 PM	715	0.0	219	0.0	1500	715	0	219	0.49	0	65.1	45.0	42.7	23.2	23.2
11PM-MID	586	0.0	180	0.0	1500	586	0	180	0.48	0	65.3	45.5	43.2	23.5	23.5

----- 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	0.0046
MAIN ROUTE WITH WORKS	0.0029
DIVERSION	0.0640

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

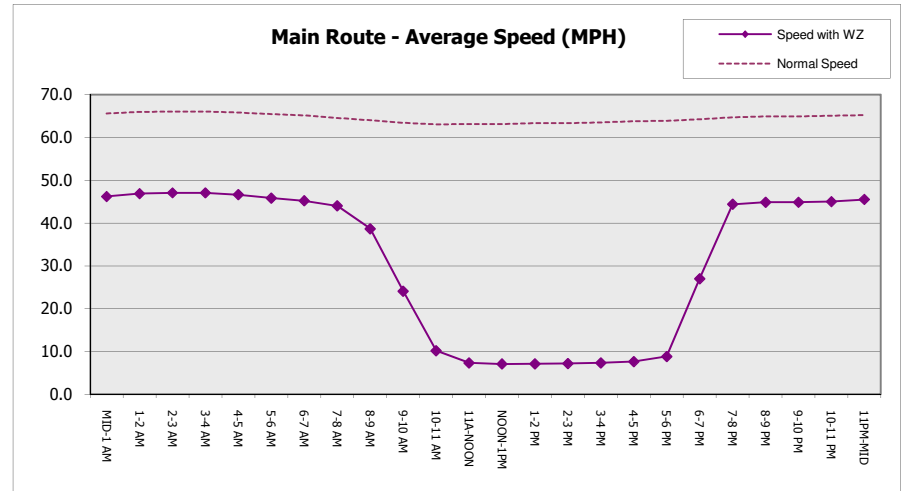
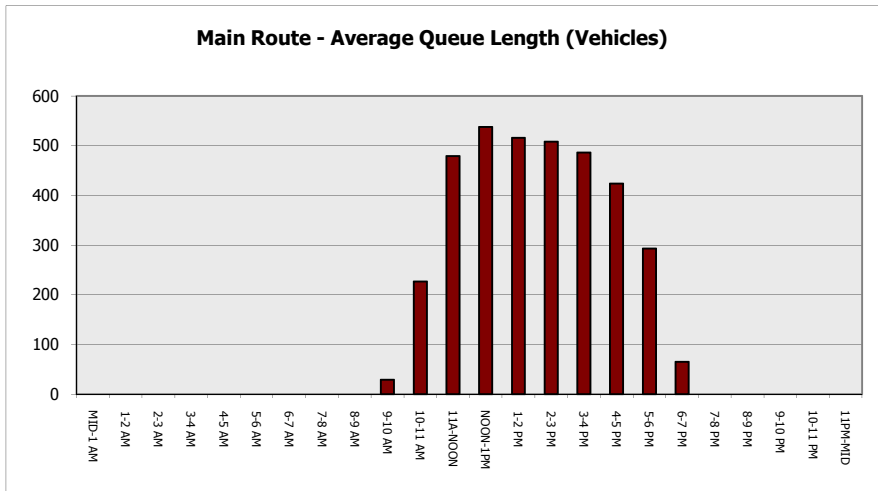
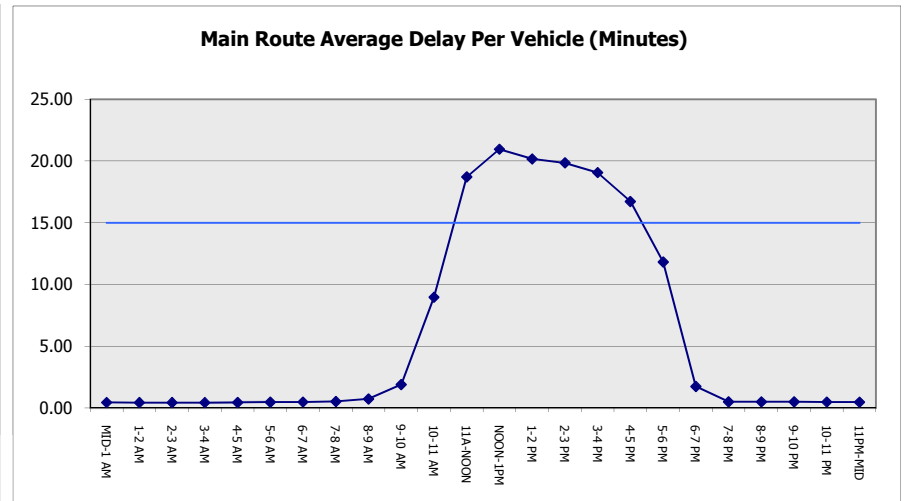
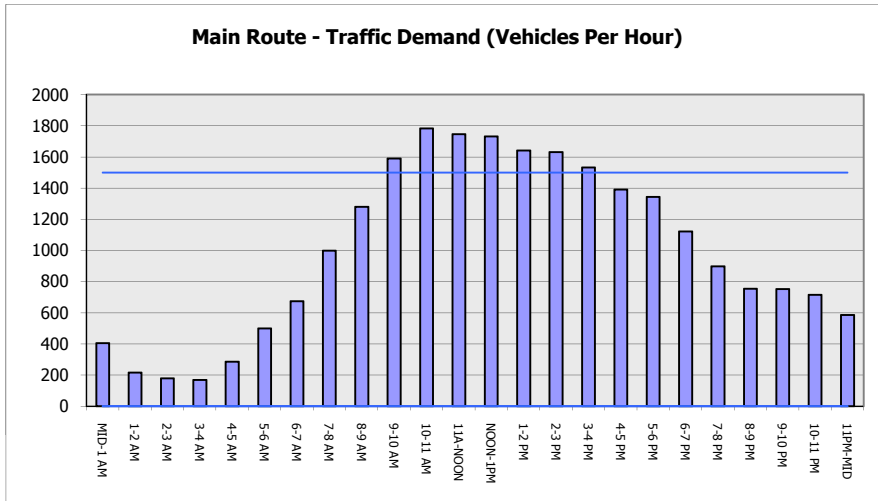
ROAD USER COSTS PER DAY (DOLLARS)	\$68,603
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

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CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: PROSPECT AVENUE - STH 47

AUGUST
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION



STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY EASTBOUND 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	512	0.0	156	0.0	1500	512	0	156	0.47	0	65.5	45.8	43.5	23.7	23.7
1-2 AM	314	0.0	96	0.0	1500	314	0	96	0.45	0	65.8	46.5	44.2	24.1	24.1
2-3 AM	252	0.0	77	0.0	1500	252	0	77	0.45	0	65.9	46.8	44.5	24.2	24.2
3-4 AM	188	0.0	58	0.0	1500	188	0	58	0.44	0	66.0	47.0	44.7	24.4	24.4
4-5 AM	174	0.0	54	0.0	1500	174	0	54	0.44	0	66.1	47.1	44.8	24.4	24.4
5-6 AM	376	0.0	115	0.0	1500	376	0	115	0.46	0	65.7	46.3	44.0	24.0	24.0
6-7 AM	673	0.0	206	0.0	1500	673	0	206	0.49	0	65.1	45.2	42.8	23.3	23.3
7-8 AM	759	0.0	233	0.0	1500	759	0	233	0.50	0	65.0	44.9	42.5	23.0	23.0
8-9 AM	1010	0.0	310	0.0	1500	1010	0	310	0.52	0	64.5	44.0	41.7	22.5	22.5
9-10 AM	1373	0.0	421	0.0	1499	1373	0	421	0.85	0	63.8	36.3	33.8	21.6	21.6
10-11 AM	1721	0.0	528	0.0	1499	1721	0	528	3.82	92	63.2	16.3	30.8	20.8	21.1
11A-NOON	1951	0.0	598	0.0	1500	1881	70	668	16.41	428	62.7	7.8	30.8	20.2	21.6
NOON-1PM	2072	0.0	635	0.0	1499	1572	500	1135	24.94	646	62.5	6.7	30.8	20.0	18.8
1-2 PM	2098	0.0	643	0.0	1499	1509	589	1232	26.22	681	62.5	6.6	30.8	19.9	18.1
2-3 PM	2049	0.0	628	0.0	1499	1480	569	1197	25.74	667	62.6	6.6	30.8	20.0	18.3
3-4 PM	2134	0.0	654	0.0	1500	1535	599	1253	26.50	688	62.4	6.6	30.8	19.8	17.9
4-5 PM	1980	0.0	607	0.0	1499	1427	552	1160	25.27	655	62.7	6.6	30.8	20.2	18.6
5-6 PM	1931	0.0	592	0.0	1500	1477	453	1045	23.85	616	62.8	6.8	30.8	20.3	19.3
6-7 PM	1766	0.0	541	0.0	1500	1429	337	879	22.08	568	63.1	7.0	30.8	20.7	20.5
7-8 PM	1381	0.0	423	0.0	1499	1335	46	470	17.39	442	63.8	7.6	30.8	21.6	23.2
8-9 PM	1470	0.0	451	0.0	1500	1470	0	451	14.08	352	63.7	8.2	30.8	21.4	23.0
9-10 PM	1340	0.0	411	0.0	1499	1340	0	411	10.80	267	63.9	9.2	30.8	21.7	22.9
10-11 PM	1123	0.0	344	0.0	1499	1123	0	344	1.52	51	64.3	28.7	37.8	22.2	22.4
11PM-MID	709	0.0	217	0.0	1500	709	0	217	0.49	0	65.1	45.0	42.7	23.2	23.2

----- 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	0.0056
MAIN ROUTE WITH WORKS	0.0032
DIVERSION	0.1015

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$136,507
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE
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AUGUST
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

