

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

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	130	0.0	39	0.0	1500	130	0	39	0.44	0	66.1	47.3	45.0	24.5	24.5
1-2 AM	105	0.0	32	0.0	1500	105	0	32	0.43	0	66.2	47.3	45.1	24.6	24.6
2-3 AM	94	0.0	29	0.0	1500	94	0	29	0.43	0	66.2	47.4	45.1	24.6	24.6
3-4 AM	139	0.0	42	0.0	1500	139	0	42	0.44	0	66.1	47.2	44.9	24.5	24.5
4-5 AM	424	0.0	130	0.0	1500	424	0	130	0.46	0	65.6	46.1	43.8	23.8	23.8
5-6 AM	1339	0.0	411	0.0	1499	1339	0	411	1.01	12	63.9	33.7	36.1	21.7	21.7
6-7 AM	2490	0.0	764	0.0	1500	2330	160	924	15.43	449	61.0	8.4	30.8	19.0	19.7
7-8 AM	3707	0.0	1138	0.0	1500	1500	2207	3344+	35.72	968	48.5	6.0	30.8	16.1	14.3
8-9 AM	2355	0.0	723	0.0	1500	1383	972	1694+	33.59	881	62.0	6.2	30.8	19.3	15.2
9-10 AM	1649	0.0	505	0.0	1500	1228	421	927	22.77	589	63.3	6.9	30.8	21.0	20.2
10-11 AM	1604	0.0	492	0.0	1500	1512	92	584	19.44	497	63.4	7.3	30.8	21.1	22.5
11A-NOON	1722	0.0	528	0.0	1500	1541	181	709	20.48	525	63.2	7.1	30.8	20.8	21.7
NOON-1PM	1844	0.0	565	0.0	1500	1543	300	866	21.93	564	63.0	7.0	30.8	20.5	20.6
1-2 PM	2008	0.0	616	0.0	1500	1563	445	1060	24.02	621	62.7	6.8	30.8	20.1	19.3
2-3 PM	2080	0.0	637	0.0	1499	1541	539	1176	25.46	660	62.5	6.6	30.8	19.9	18.4
3-4 PM	2441	0.0	748	0.0	1500	1705	736	1484	30.23	791	61.5	6.3	30.8	19.1	16.3
4-5 PM	2750	0.0	843	0.0	1499	1529	1220	2063+	34.86	921	58.3	6.1	30.8	18.4	14.7
5-6 PM	2635	0.0	807	0.0	1499	1471	1164	1971+	34.81	918	59.5	6.1	30.8	18.6	14.8
6-7 PM	1742	0.0	534	0.0	1499	1094	648	1182	25.97	678	63.2	6.6	30.8	20.7	18.4
7-8 PM	1088	0.0	334	0.0	1499	1088	0	334	11.43	310	64.3	9.3	33.8	22.3	23.7
8-9 PM	895	0.0	274	0.0	1500	894	0	274	0.61	5	64.7	41.8	42.0	22.7	22.7
9-10 PM	863	0.0	265	0.0	1500	863	0	265	0.51	0	64.8	44.5	42.2	22.8	22.8
10-11 PM	568	0.0	174	0.0	1500	568	0	174	0.48	0	65.3	45.6	43.2	23.5	23.5
11PM-MID	298	0.0	92	0.0	1500	298	0	92	0.45	0	65.8	46.6	44.3	24.2	24.2

+ 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	0.0067
MAIN ROUTE WITH WORKS	0.0032
DIVERSION	0.1582

PIA: Personal Injury Accidents

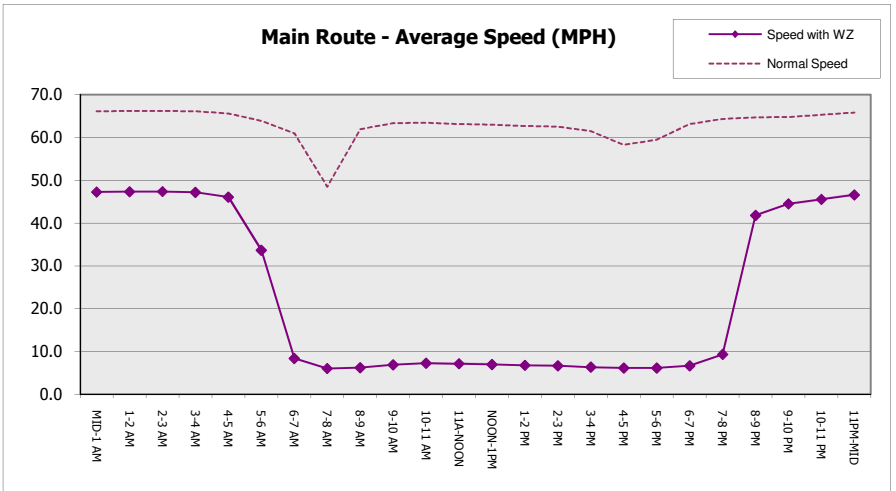
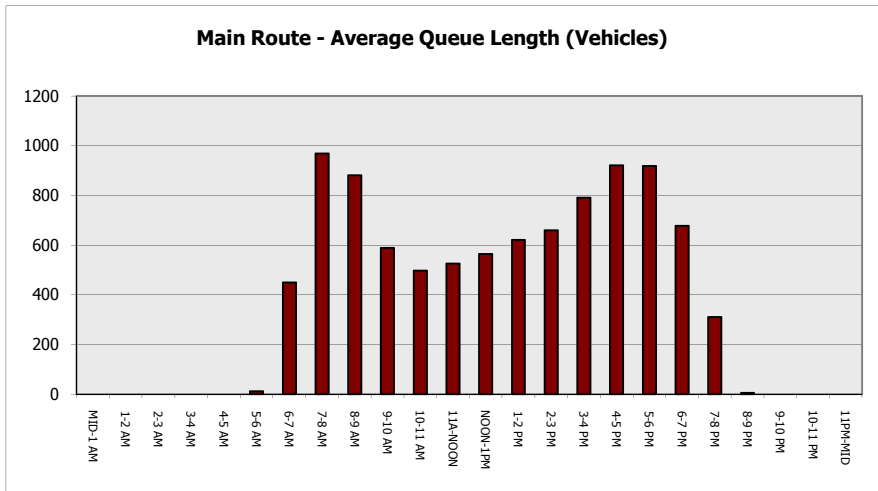
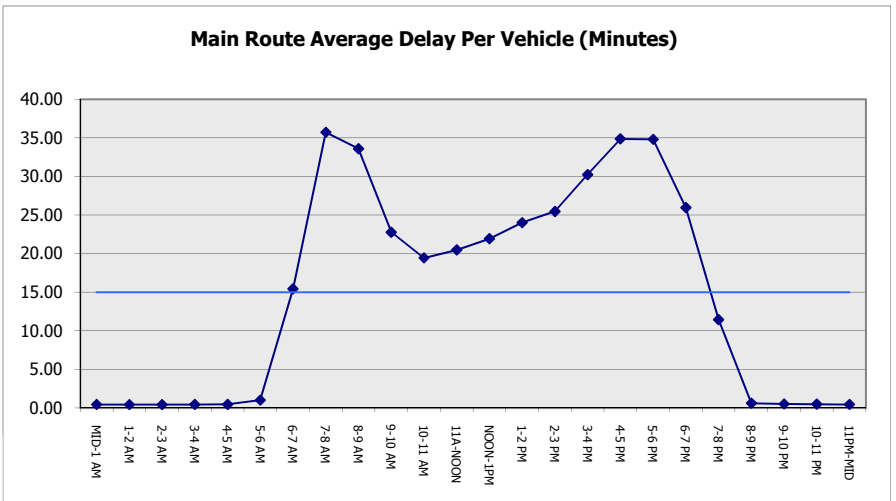
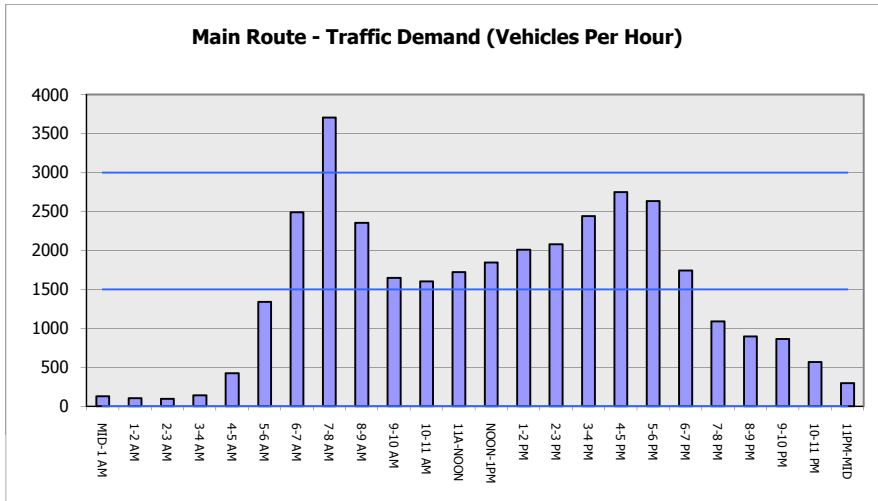
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$208,235
CONGESTED HOURS PER DAY*	13

*Delays Exceeding 15 Minutes

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

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



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

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING				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	311	0.0	94	0.0	1500	311	0	94	0.45	0	65.8	46.5	44.2	24.1	24.1
1-2 AM	208	0.0	63	0.0	1500	208	0	63	0.44	0	66.0	46.9	44.6	24.3	24.3
2-3 AM	181	0.0	55	0.0	1500	181	0	55	0.44	0	66.1	47.0	44.8	24.4	24.4
3-4 AM	95	0.0	30	0.0	1500	95	0	30	0.43	0	66.2	47.4	45.1	24.6	24.6
4-5 AM	205	0.0	63	0.0	1500	205	0	63	0.44	0	66.0	46.9	44.6	24.3	24.3
5-6 AM	730	0.0	224	0.0	1500	730	0	224	0.49	0	65.0	45.0	42.7	23.1	23.1
6-7 AM	1934	0.0	593	0.0	1499	1934	0	593	4.52	141	62.8	15.5	30.8	20.3	20.9
7-8 AM	3125	0.0	958	0.0	1499	2026	1099	2057+	32.07	860	54.5	6.3	30.8	17.5	15.8
8-9 AM	2230	0.0	684	0.0	1499	1255	975	1658+	32.42	850	62.2	6.2	30.8	19.6	15.6
9-10 AM	1742	0.0	534	0.0	1499	1314	428	963	23.03	595	63.2	6.9	30.8	20.7	19.9
10-11 AM	1808	0.0	555	0.0	1500	1543	265	820	21.49	552	63.0	7.0	30.8	20.6	20.9
11A-NOON	1972	0.0	605	0.0	1500	1567	406	1011	23.46	606	62.7	6.8	30.8	20.2	19.6
NOON-1PM	2151	0.0	660	0.0	1500	1578	573	1233	26.23	681	62.3	6.6	30.8	19.7	18.1
1-2 PM	2198	0.0	674	0.0	1499	1549	649	1324	27.53	716	62.3	6.5	30.8	19.7	17.5
2-3 PM	2933	0.0	900	0.0	1500	1683	1250	2150+	34.74	922	56.4	6.1	30.8	17.9	14.8
3-4 PM	3635	0.0	1115	0.0	1500	1500	2135	3250+	35.80	968	49.2	6.0	30.8	16.3	14.3
4-5 PM	4399	0.0	1349	0.0	1500	1500	2898	4247+	34.85	968	41.4	6.0	30.8	14.5	14.3
5-6 PM	3883	0.0	1189	0.0	1500	1500	2383	3572+	35.53	968	46.7	6.0	30.8	15.7	14.3
6-7 PM	2509	0.0	769	0.0	1500	1361	1148	1917+	34.22	900	60.8	6.1	30.8	18.9	15.0
7-8 PM	1557	0.0	478	0.0	1500	1133	424	902	22.55	586	63.5	7.0	30.8	21.2	20.4
8-9 PM	1316	0.0	404	0.0	1499	1316	0	404	14.45	365	64.0	8.1	30.8	21.7	23.3
9-10 PM	1054	0.0	323	0.0	1499	1054	0	323	1.95	83	64.4	25.9	38.3	22.4	22.7
10-11 PM	864	0.0	265	0.0	1500	864	0	265	0.51	0	64.8	44.5	42.2	22.8	22.8
11PM-MID	530	0.0	163	0.0	1500	530	0	163	0.47	0	65.4	45.7	43.4	23.6	23.6

+ 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	0.0079
MAIN ROUTE WITH WORKS	0.0034
DIVERSION	0.2186

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$277,620
CONGESTED HOURS PER DAY*	13

*Delays Exceeding 15 Minutes

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

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

