

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

FRIDAY 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	165	0.0	50	0.0	1500	165	0	50	0.44	0	66.1	47.1	44.8	24.5	24.5
1-2 AM	132	0.0	40	0.0	1500	132	0	40	0.44	0	66.1	47.3	45.0	24.5	24.5
2-3 AM	129	0.0	39	0.0	1500	129	0	39	0.43	0	66.1	47.3	45.0	24.5	24.5
3-4 AM	132	0.0	40	0.0	1500	132	0	40	0.44	0	66.1	47.3	45.0	24.5	24.5
4-5 AM	468	0.0	143	0.0	1500	468	0	143	0.47	0	65.5	46.0	43.7	23.7	23.7
5-6 AM	1182	0.0	362	0.0	1499	1182	0	362	0.69	0	64.2	39.7	37.3	22.0	22.0
6-7 AM	2315	0.0	710	0.0	1499	2251	64	775	10.75	322	62.1	9.9	30.8	19.4	20.3
7-8 AM	3566	0.0	1093	0.0	1500	1570	1996	3089+	35.23	951	50.0	6.1	30.8	16.5	14.5
8-9 AM	2338	0.0	716	0.0	1500	1439	900	1616+	32.79	859	62.0	6.2	30.8	19.3	15.5
9-10 AM	1702	0.0	522	0.0	1500	1251	451	973	23.23	601	63.2	6.8	30.8	20.9	19.9
10-11 AM	1742	0.0	534	0.0	1500	1539	203	737	20.73	532	63.2	7.1	30.8	20.7	21.5
11A-NOON	1949	0.0	598	0.0	1500	1580	369	967	22.98	593	62.8	6.9	30.8	20.2	19.9
NOON-1PM	2138	0.0	656	0.0	1500	1582	556	1211	25.93	673	62.4	6.6	30.8	19.8	18.2
1-2 PM	2260	0.0	693	0.0	1499	1564	696	1389	28.55	744	62.2	6.5	30.8	19.5	17.0
2-3 PM	2349	0.0	720	0.0	1500	1567	782	1501	30.51	797	62.0	6.3	30.8	19.3	16.2
3-4 PM	2755	0.0	845	0.0	1500	1571	1183	2029+	35.06	927	58.2	6.1	30.8	18.4	14.7
4-5 PM	2866	0.0	879	0.0	1500	1516	1350	2229+	35.27	935	57.1	6.1	30.8	18.1	14.6
5-6 PM	2643	0.0	810	0.0	1500	1467	1176	1986+	34.85	919	59.4	6.1	30.8	18.6	14.8
6-7 PM	1872	0.0	574	0.0	1500	1142	730	1304	27.56	720	62.9	6.5	30.8	20.4	17.6
7-8 PM	1202	0.0	369	0.0	1499	1158	44	412	14.87	384	64.1	8.1	31.5	22.0	23.4
8-9 PM	897	0.0	275	0.0	1500	897	0	275	1.01	33	64.7	34.9	41.9	22.7	22.9
9-10 PM	973	0.0	299	0.0	1500	973	0	299	0.52	0	64.6	44.1	41.8	22.5	22.5
10-11 PM	750	0.0	230	0.0	1500	750	0	230	0.50	0	65.0	44.9	42.6	23.1	23.1
11PM-MID	532	0.0	163	0.0	1500	532	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	0.0071
MAIN ROUTE WITH WORKS	0.0033
DIVERSION	0.1746

PIA: Personal Injury Accidents

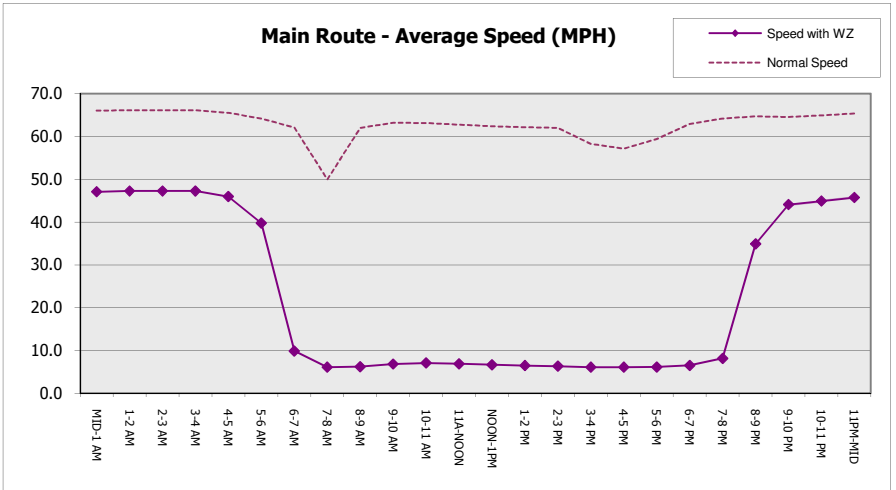
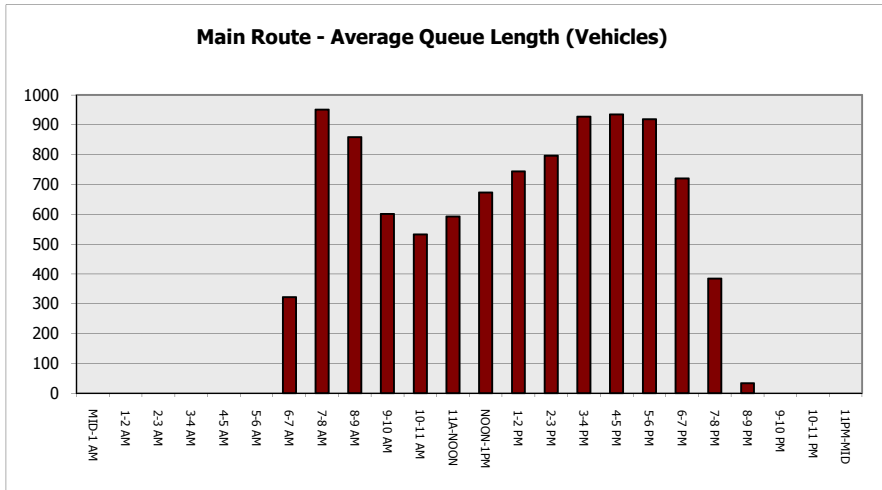
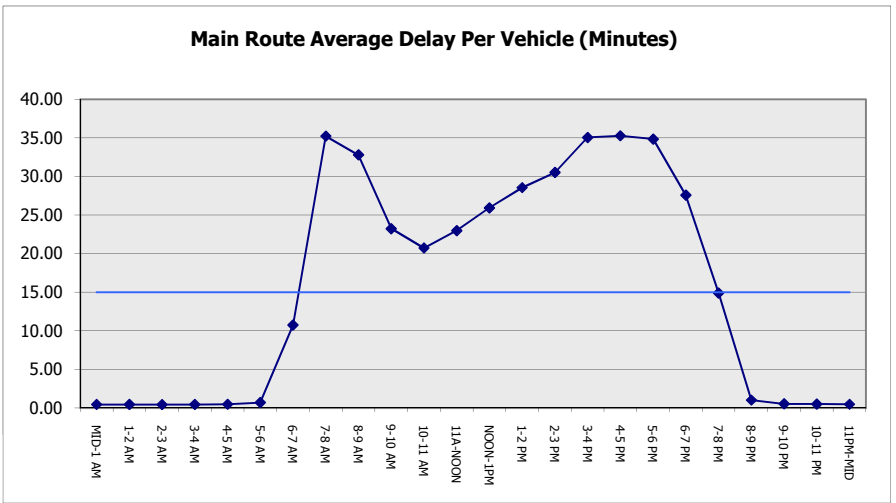
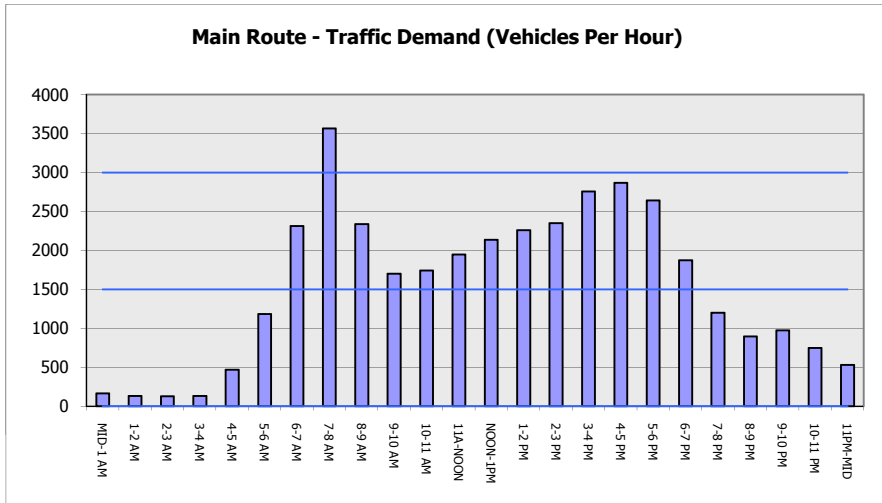
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$237,691
CONGESTED HOURS PER DAY*	12

*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
FRIDAY WESTBOUND DIRECTION



STH 441: USH 41 TO RACINE ST (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: PROSPECT AVENUE - STH 47	OCTOBER
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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	366	0.0	112	0.0	1500	366	0	112	0.46	0	65.7	46.3	44.0	24.0	24.0
1-2 AM	240	0.0	73	0.0	1500	240	0	73	0.45	0	66.0	46.8	44.5	24.3	24.3
2-3 AM	191	0.0	59	0.0	1500	191	0	59	0.44	0	66.0	47.0	44.7	24.4	24.4
3-4 AM	110	0.0	34	0.0	1500	110	0	34	0.43	0	66.2	47.3	45.0	24.6	24.6
4-5 AM	214	0.0	66	0.0	1500	214	0	66	0.44	0	66.0	46.9	44.6	24.3	24.3
5-6 AM	736	0.0	225	0.0	1500	736	0	225	0.49	0	65.0	45.0	42.6	23.1	23.1
6-7 AM	1887	0.0	579	0.0	1499	1887	0	579	4.01	123	62.8	16.5	30.8	20.4	20.9
7-8 AM	2981	0.0	914	0.0	1500	2076	905	1819+	30.83	826	56.0	6.3	30.8	17.8	16.4
8-9 AM	2308	0.0	707	0.0	1499	1301	1007	1714+	32.96	864	62.1	6.2	30.8	19.4	15.4
9-10 AM	1875	0.0	574	0.0	1499	1317	558	1133	25.00	648	62.9	6.7	30.8	20.4	18.8
10-11 AM	2036	0.0	624	0.0	1500	1589	447	1071	24.16	625	62.6	6.8	30.8	20.1	19.2
11A-NOON	2365	0.0	725	0.0	1500	1670	695	1420	29.10	760	62.0	6.4	30.8	19.3	16.8
NOON-1PM	2491	0.0	764	0.0	1499	1595	896	1660+	33.69	885	61.0	6.1	30.8	19.0	15.2
1-2 PM	2656	0.0	814	0.0	1499	1506	1150	1964+	34.66	914	59.3	6.1	30.8	18.6	14.8
2-3 PM	3381	0.0	1037	0.0	1499	1506	1874	2911+	35.99	966	51.9	6.0	30.8	16.9	14.3
3-4 PM	3939	0.0	1208	0.0	1499	1500	2439	3647+	35.46	968	46.1	6.0	30.8	15.6	14.3
4-5 PM	4499	0.0	1379	0.0	1499	1500	2999	4379+	34.70	968	40.4	6.0	30.8	14.3	14.3
5-6 PM	3889	0.0	1192	0.0	1499	1500	2389	3581+	35.52	968	46.6	6.0	30.8	15.7	14.3
6-7 PM	2738	0.0	840	0.0	1499	1424	1314	2154+	35.24	931	58.4	6.1	30.8	18.4	14.7
7-8 PM	1745	0.0	535	0.0	1499	1129	616	1151	25.52	665	63.2	6.7	30.8	20.7	18.6
8-9 PM	1460	0.0	448	0.0	1500	1428	32	480	18.41	469	63.7	7.4	30.8	21.4	23.2
9-10 PM	1303	0.0	399	0.0	1499	1303	0	399	13.45	338	64.0	8.4	30.8	21.8	23.3
10-11 PM	1179	0.0	361	0.0	1499	1179	0	361	2.67	97	64.2	21.5	35.8	22.0	22.5
11PM-MID	783	0.0	240	0.0	1500	783	0	240	0.50	0	65.0	44.8	42.5	23.0	23.0

+ 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	0.0087
MAIN ROUTE WITH WORKS	0.0035
DIVERSION	0.2494

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$332,585
CONGESTED HOURS PER DAY*	14

*Delays Exceeding 15 Minutes

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FRIDAY EASTBOUND DIRECTION

