

USH 41: STH 76 TO USH 45 (WINNEBAGO COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	286	0.0	1500	286	0	0.45	0	65.8	56.8	44.3
1-2 AM	166	0.0	1500	166	0	0.44	0	66.1	57.2	44.8
2-3 AM	137	0.0	1500	137	0	0.44	0	66.1	57.3	45.0
3-4 AM	110	0.0	1500	110	0	0.43	0	66.2	57.3	45.0
4-5 AM	188	0.0	1500	188	0	0.44	0	66.0	57.1	44.7
5-6 AM	287	0.0	1500	287	0	0.45	0	65.8	56.8	44.3
6-7 AM	561	0.0	1500	561	0	0.48	0	65.3	56.0	43.3
7-8 AM	953	0.0	1500	953	0	0.51	0	64.6	54.8	41.9
8-9 AM	1353	0.0	1499	1353	0	0.83	0	63.8	49.7	34.2
9-10 AM	1473	0.0	1499	1473	0	1.04	1	63.7	46.9	31.5
10-11 AM	1672	0.0	1500	1672	0	3.85	86	63.3	27.4	30.8
11AM-NOON	1655	0.0	1499	1655	0	10.27	254	63.3	14.1	30.8
NOON-1PM	1706	0.0	1500	1589	116	15.63+	395	63.2	10.5	30.8
1-2 PM	1626	0.0	1499	1497	130	16.11+	407	63.3	10.4	30.8
2-3 PM	1693	0.0	1500	1499	194	16.11+	407	63.2	10.4	30.8
3-4 PM	1705	0.0	1500	1499	205	16.11+	407	63.2	10.4	30.8
4-5 PM	1549	0.0	1499	1483	67	16.05+	405	63.5	10.4	30.8
5-6 PM	1396	0.0	1499	1396	0	14.41+	362	63.8	11.0	30.8
6-7 PM	1135	0.0	1499	1135	0	3.97	134	64.3	27.1	35.6
7-8 PM	946	0.0	1500	946	0	0.51	0	64.6	54.8	41.9
8-9 PM	876	0.0	1500	876	0	0.51	0	64.8	55.0	42.1
9-10 PM	766	0.0	1500	766	0	0.50	0	65.0	55.3	42.5
10-11 PM	616	0.0	1500	616	0	0.48	0	65.3	55.8	43.1
11PM-MID	372	0.0	1500	372	0	0.46	0	65.7	56.5	44.0

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0115
MAIN ROUTE WITH WORKS	0.0096
'DIVERSION'	0.0008
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$52,367
CONGESTED HOURS PER DAY*	6

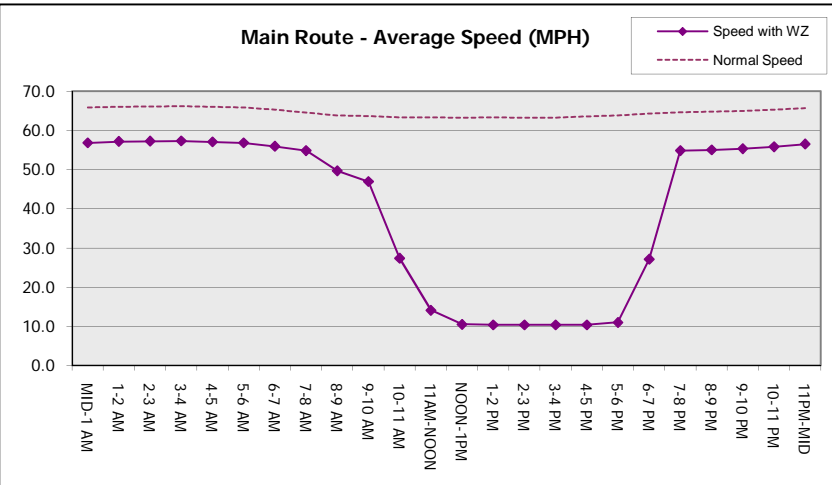
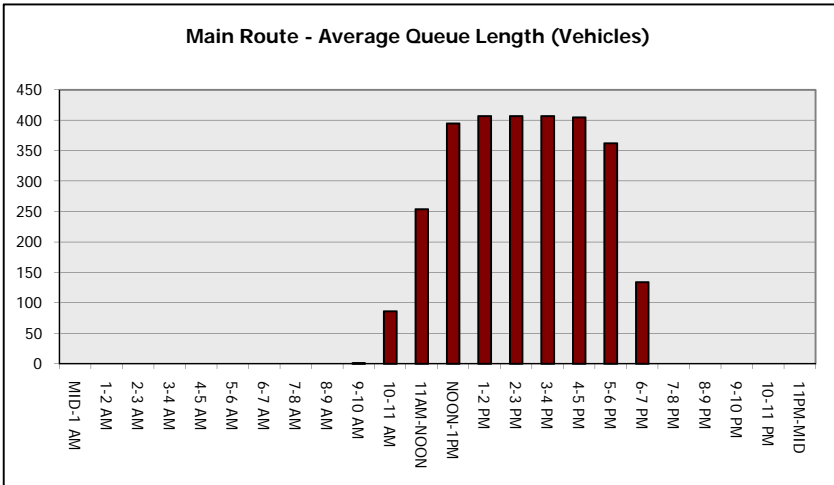
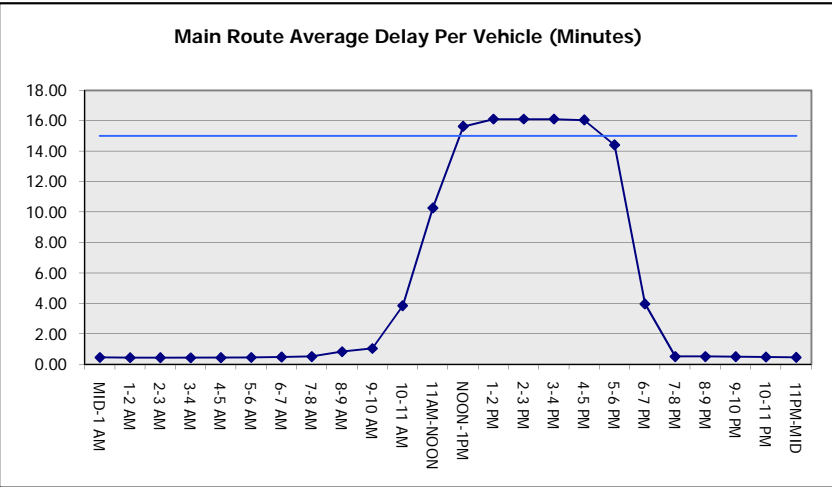
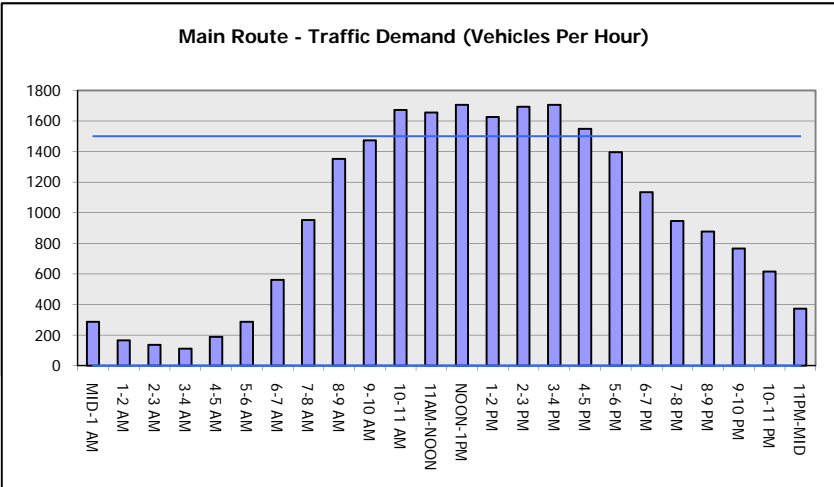
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	317	0.0	1500	317	0	0.45	0	65.8	56.7	44.2
1-2 AM	214	0.0	1500	214	0	0.44	0	66.0	57.0	44.6
2-3 AM	154	0.0	1500	154	0	0.44	0	66.1	57.2	44.8
3-4 AM	126	0.0	1500	126	0	0.43	0	66.1	57.3	45.0
4-5 AM	151	0.0	1500	151	0	0.44	0	66.1	57.2	44.9
5-6 AM	343	0.0	1500	343	0	0.46	0	65.8	56.6	44.1
6-7 AM	578	0.0	1500	578	0	0.48	0	65.3	55.9	43.2
7-8 AM	1071	0.0	1500	1071	0	0.53	0	64.4	54.5	41.4
8-9 AM	1389	0.0	1499	1389	0	0.88	0	63.8	49.1	33.3
9-10 AM	1702	0.0	1499	1702	0	3.47	80	63.2	29.0	30.8
10-11 AM	2040	0.0	1500	1737	303	14.20+	364	62.6	11.2	30.8
11AM-NOON	2220	0.0	1499	1498	722	16.08+	407	62.2	10.4	30.8
NOON-1PM	2200	0.0	1499	1499	701	16.08+	407	62.3	10.4	30.8
1-2 PM	2148	0.0	1499	1499	650	16.08+	407	62.4	10.4	30.8
2-3 PM	2080	0.0	1499	1499	582	16.09+	407	62.5	10.4	30.8
3-4 PM	1985	0.0	1499	1499	486	16.10+	407	62.7	10.4	30.8
4-5 PM	2036	0.0	1499	1499	537	16.09+	407	62.6	10.4	30.8
5-6 PM	1757	0.0	1499	1493	264	16.09+	406	63.1	10.4	30.8
6-7 PM	1415	0.0	1499	1385	30	14.88+	374	63.8	10.8	30.8
7-8 PM	1141	0.0	1499	1141	0	4.44	146	64.3	25.3	35.2
8-9 PM	954	0.0	1500	954	0	0.51	0	64.6	54.8	41.9
9-10 PM	876	0.0	1500	876	0	0.51	0	64.8	55.0	42.1
10-11 PM	686	0.0	1500	686	0	0.49	0	65.1	55.6	42.8
11PM-MID	460	0.0	1500	460	0	0.47	0	65.5	56.3	43.7

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0138
MAIN ROUTE WITH WORKS	0.0102
'DIVERSION'	0.0049

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$83,571
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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