

USH 41: 9TH AVE TO STH 44 (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	265	0.0	1500	265	0	0.45	0	65.9	48.7	44.4
1-2 AM	166	0.0	1500	166	0	0.44	0	66.1	49.1	44.8
2-3 AM	134	0.0	1500	134	0	0.44	0	66.1	49.2	45.0
3-4 AM	116	0.0	1500	116	0	0.43	0	66.2	49.3	45.0
4-5 AM	212	0.0	1500	212	0	0.44	0	66.0	48.9	44.6
5-6 AM	327	0.0	1500	327	0	0.45	0	65.8	48.5	44.2
6-7 AM	588	0.0	1500	588	0	0.48	0	65.3	47.6	43.2
7-8 AM	980	0.0	1499	980	0	0.52	0	64.6	46.2	41.7
8-9 AM	1430	0.0	1499	1430	0	0.97	1	63.7	36.6	32.5
9-10 AM	1640	0.0	1500	1640	0	3.00	62	63.3	19.9	30.8
10-11 AM	1855	0.0	1500	1843	12	12.18+	314	62.9	9.2	30.8
11AM-NOON	1851	0.0	1500	1465	385	17.23+	437	62.9	7.8	30.8
NOON-1PM	1819	0.0	1499	1497	322	17.31+	439	63.0	7.8	30.8
1-2 PM	1757	0.0	1499	1497	260	17.31+	439	63.1	7.8	30.8
2-3 PM	1827	0.0	1499	1498	329	17.31+	439	63.0	7.8	30.8
3-4 PM	1831	0.0	1499	1499	333	17.31+	439	63.0	7.8	30.8
4-5 PM	1658	0.0	1499	1499	160	17.30+	439	63.3	7.8	30.8
5-6 PM	1487	0.0	1499	1466	22	17.05+	432	63.6	7.9	30.8
6-7 PM	1216	0.0	1499	1216	0	11.00+	282	64.1	9.7	31.7
7-8 PM	994	0.0	1500	994	0	0.82	16	64.5	39.6	41.5
8-9 PM	906	0.0	1500	906	0	0.51	0	64.7	46.5	42.0
9-10 PM	772	0.0	1500	772	0	0.50	0	65.0	46.9	42.5
10-11 PM	616	0.0	1500	616	0	0.48	0	65.3	47.4	43.1
11PM-MID	364	0.0	1500	364	0	0.46	0	65.7	48.4	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

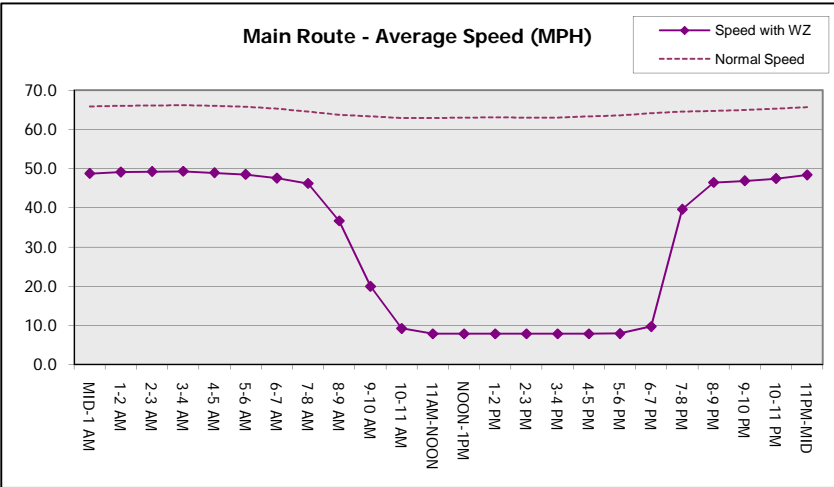
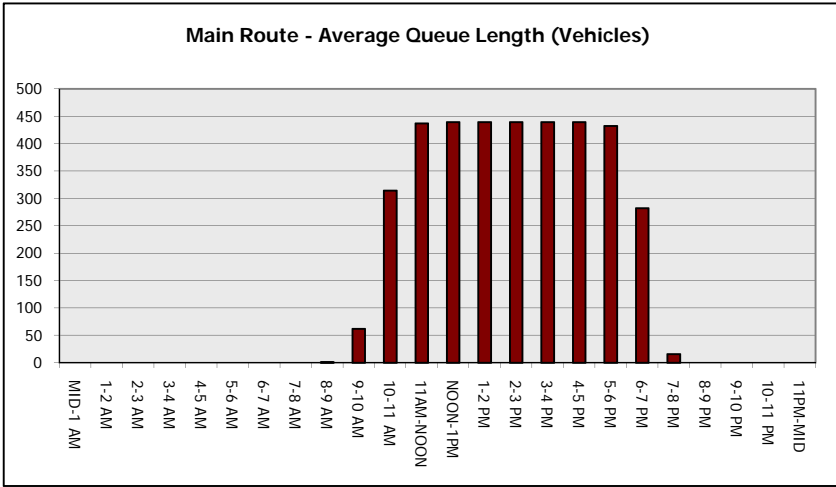
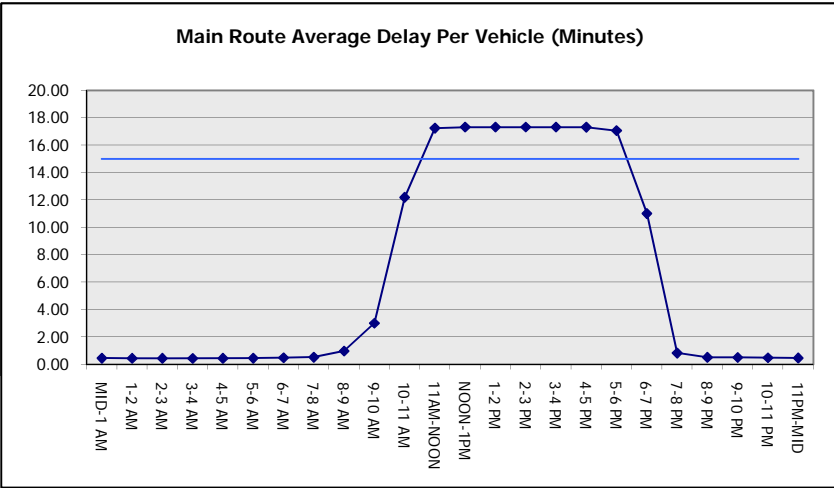
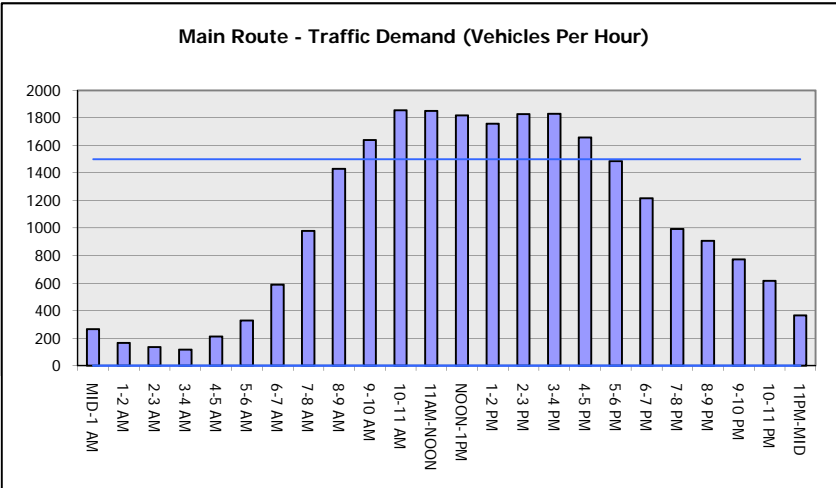
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0055
MAIN ROUTE WITH WORKS	0.0036
'DIVERSION'	0.0009
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$72,104
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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Construction Season

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	301	0.0	1500	301	0	0.45	0	65.8	48.6	44.3
1-2 AM	189	0.0	1500	189	0	0.44	0	66.0	49.0	44.7
2-3 AM	154	0.0	1500	154	0	0.44	0	66.1	49.1	44.8
3-4 AM	125	0.0	1500	125	0	0.43	0	66.1	49.2	45.0
4-5 AM	169	0.0	1500	169	0	0.44	0	66.1	49.1	44.8
5-6 AM	372	0.0	1500	372	0	0.46	0	65.7	48.3	44.0
6-7 AM	600	0.0	1500	600	0	0.48	0	65.3	47.5	43.1
7-8 AM	987	0.0	1500	987	0	0.52	0	64.5	46.1	41.7
8-9 AM	1307	0.0	1499	1307	0	0.77	0	64.0	40.3	35.4
9-10 AM	1607	0.0	1499	1607	0	2.09	36	63.4	24.7	30.8
10-11 AM	1863	0.0	1500	1863	0	10.71+	278	62.9	9.8	30.8
11AM-NOON	1924	0.0	1499	1493	431	17.32+	440	62.8	7.8	30.8
NOON-1PM	1898	0.0	1499	1495	404	17.32+	440	62.8	7.8	30.8
1-2 PM	1861	0.0	1499	1496	365	17.31+	440	62.9	7.8	30.8
2-3 PM	1761	0.0	1499	1497	265	17.31+	439	63.1	7.8	30.8
3-4 PM	1657	0.0	1499	1497	160	17.30+	439	63.3	7.8	30.8
4-5 PM	1656	0.0	1499	1498	158	17.30+	439	63.3	7.8	30.8
5-6 PM	1495	0.0	1499	1466	28	17.07+	432	63.6	7.9	30.8
6-7 PM	1216	0.0	1499	1216	0	11.12+	285	64.1	9.6	31.7
7-8 PM	1010	0.0	1500	1010	0	0.86	18	64.5	38.9	41.2
8-9 PM	839	0.0	1500	839	0	0.50	0	64.8	46.6	42.2
9-10 PM	767	0.0	1500	767	0	0.50	0	65.0	46.9	42.5
10-11 PM	614	0.0	1500	614	0	0.48	0	65.3	47.4	43.1
11PM-MID	397	0.0	1500	397	0	0.46	0	65.6	48.3	43.9

+ 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	0.0055
MAIN ROUTE WITH WORKS	0.0036
'DIVERSION'	0.0009

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$71,042
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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