

USH 41: STH 15 TO STH 125 (OUTAGAMIE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	362	0.0	1500	362	0	0.52	0	70.2	52.5	44.0
1-2 AM	235	0.0	1500	235	0	0.50	0	70.2	53.0	44.5
2-3 AM	232	0.0	1500	232	0	0.50	0	70.2	53.0	44.5
3-4 AM	150	0.0	1500	150	0	0.49	0	70.2	53.2	44.9
4-5 AM	131	0.0	1500	131	0	0.49	0	70.2	53.3	45.0
5-6 AM	175	0.0	1500	175	0	0.49	0	70.2	53.2	44.8
6-7 AM	277	0.0	1500	277	0	0.51	0	70.2	52.8	44.4
7-8 AM	355	0.0	1500	355	0	0.52	0	70.2	52.5	44.1
8-9 AM	614	0.0	1500	614	0	0.55	0	70.0	51.7	43.1
9-10 AM	923	0.0	OFF	923	0	0.00	0	69.6	69.6	69.6
10-11 AM	1296	0.0	OFF	1296	0	0.00	0	69.1	69.1	69.1
11AM-NOON	1673	0.0	OFF	1673	0	0.00	0	68.7	68.7	68.7
NOON-1PM	1971	0.0	OFF	1971	0	0.00	0	68.3	68.3	68.3
1-2 PM	2084	0.0	OFF	2084	0	0.00	0	68.1	68.1	68.1
2-3 PM	2229	0.0	OFF	2229	0	0.00	0	67.9	67.9	67.9
3-4 PM	2412	0.0	OFF	2412	0	0.00	0	67.8	67.8	67.8
4-5 PM	2459	0.0	OFF	2459	0	0.00	0	67.7	67.7	67.7
5-6 PM	2265	0.0	OFF	2265	0	0.00	0	67.9	67.9	67.9
6-7 PM	1872	0.0	OFF	1872	0	0.00	0	68.4	68.4	68.4
7-8 PM	1295	0.0	1500	1295	0	0.83	0	69.1	45.1	35.6
8-9 PM	875	0.0	1500	875	0	0.57	0	69.6	50.9	42.1
9-10 PM	632	0.0	1500	632	0	0.55	0	69.9	51.7	43.0
10-11 PM	447	0.0	1500	447	0	0.53	0	70.2	52.3	43.7
11PM-MID	550	0.0	1500	550	0	0.54	0	70.0	51.9	43.3

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0073
MAIN ROUTE WITH WORKS	0.0069
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$884
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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 NIGHTTIME 2 LANE CLOSURE
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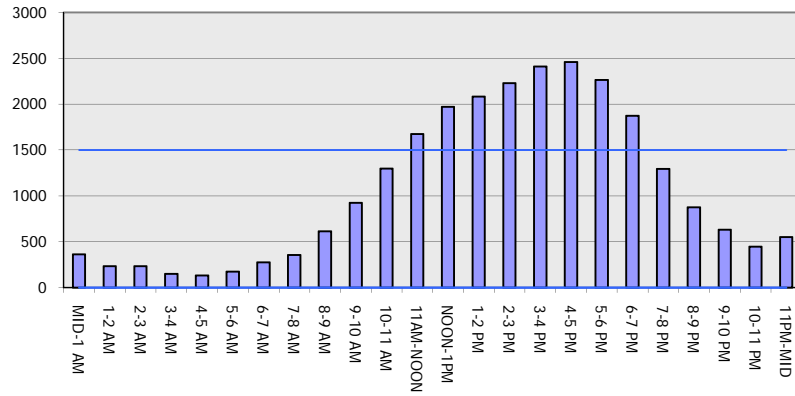
OCTOBER

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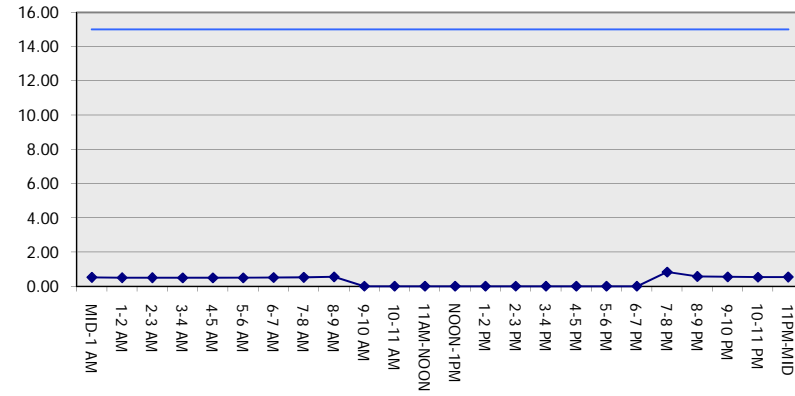
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY SOUTHBOUND DIRECTION

Main Route - Traffic Demand (Vehicles Per Hour)



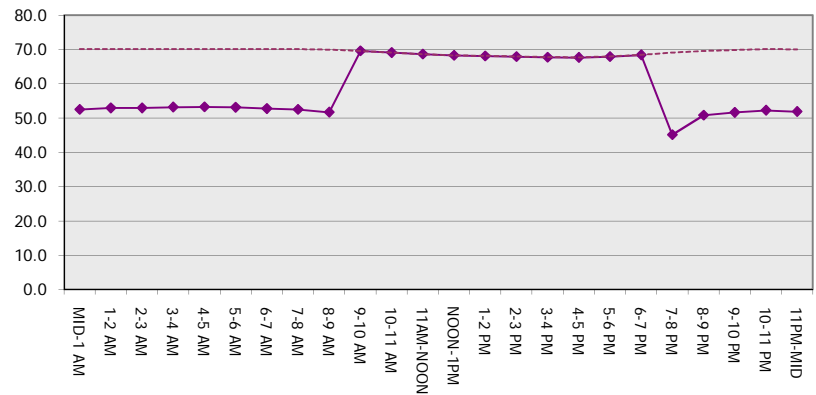
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	289	0.0	1500	289	0	0.51	0	70.2	52.8	44.3
1-2 AM	198	0.0	1500	198	0	0.50	0	70.2	53.0	44.7
2-3 AM	158	0.0	1500	158	0	0.49	0	70.2	53.2	44.8
3-4 AM	106	0.0	1500	106	0	0.49	0	70.2	53.3	45.1
4-5 AM	98	0.0	1500	98	0	0.48	0	70.2	53.4	45.1
5-6 AM	178	0.0	1500	178	0	0.49	0	70.2	53.2	44.8
6-7 AM	260	0.0	1500	260	0	0.50	0	70.2	52.8	44.5
7-8 AM	442	0.0	1500	442	0	0.53	0	70.2	52.3	43.7
8-9 AM	886	0.0	1500	886	0	0.57	0	69.6	50.8	42.1
9-10 AM	1448	0.0	OFF	1448	0	0.00	0	68.9	68.9	68.9
10-11 AM	1764	0.0	OFF	1764	0	0.00	0	68.6	68.6	68.6
11AM-NOON	1865	0.0	OFF	1865	0	0.00	0	68.4	68.4	68.4
NOON-1PM	1953	0.0	OFF	1953	0	0.00	0	68.3	68.3	68.3
1-2 PM	1837	0.0	OFF	1837	0	0.00	0	68.4	68.4	68.4
2-3 PM	1849	0.0	OFF	1849	0	0.00	0	68.4	68.4	68.4
3-4 PM	1950	0.0	OFF	1950	0	0.00	0	68.3	68.3	68.3
4-5 PM	1822	0.0	OFF	1822	0	0.00	0	68.5	68.5	68.5
5-6 PM	1489	0.0	OFF	1489	0	0.00	0	68.9	68.9	68.9
6-7 PM	1219	0.0	OFF	1219	0	0.00	0	69.2	69.2	69.2
7-8 PM	867	0.0	1500	867	0	0.57	0	69.7	50.9	42.2
8-9 PM	652	0.0	1500	652	0	0.55	0	69.9	51.6	42.9
9-10 PM	487	0.0	1500	487	0	0.53	0	70.1	52.2	43.5
10-11 PM	365	0.0	1500	365	0	0.52	0	70.2	52.5	44.0
11PM-MID	213	0.0	1500	213	0	0.50	0	70.2	53.0	44.6

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0064
MAIN ROUTE WITH WORKS	0.0061
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$655
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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SUNDAY NORTHBOUND DIRECTION

