

USH 41: STH 15 TO STH 441 (OUTAGAMIE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	335	0.0	1500	335	0	0.45	0	65.8	60.6	44.2
1-2 AM	201	0.0	1500	201	0	0.44	0	66.0	61.0	44.6
2-3 AM	149	0.0	1500	149	0	0.44	0	66.1	61.1	44.9
3-4 AM	136	0.0	1500	136	0	0.44	0	66.1	61.2	45.0
4-5 AM	247	0.0	1500	247	0	0.45	0	66.0	60.9	44.5
5-6 AM	360	0.0	1500	360	0	0.46	0	65.7	60.5	44.0
6-7 AM	595	0.0	1500	595	0	0.48	0	65.3	60.0	43.2
7-8 AM	945	0.0	1500	945	0	0.51	0	64.6	59.1	41.9
8-9 AM	1399	0.0	OFF	1399	0	0.00	0	63.8	63.8	63.8
9-10 AM	1555	0.0	OFF	1555	0	0.00	0	63.5	63.5	63.5
10-11 AM	1894	0.0	OFF	1894	0	0.00	0	62.8	62.8	62.8
11AM-NOON	1893	0.0	OFF	1893	0	0.00	0	62.8	62.8	62.8
NOON-1PM	1936	0.0	OFF	1936	0	0.00	0	62.8	62.8	62.8
1-2 PM	1843	0.0	OFF	1843	0	0.00	0	63.0	63.0	63.0
2-3 PM	1811	0.0	OFF	1811	0	0.00	0	63.0	63.0	63.0
3-4 PM	1695	0.0	OFF	1695	0	0.00	0	63.2	63.2	63.2
4-5 PM	1608	0.0	OFF	1608	0	0.00	0	63.4	63.4	63.4
5-6 PM	1527	0.0	OFF	1527	0	0.00	0	63.5	63.5	63.5
6-7 PM	1442	0.0	1500	1442	0	0.95	0	63.7	54.4	32.0
7-8 PM	1117	0.0	1500	1117	0	0.53	0	64.3	58.7	41.3
8-9 PM	962	0.0	1500	962	0	0.52	0	64.6	59.1	41.8
9-10 PM	887	0.0	1500	887	0	0.51	0	64.7	59.2	42.1
10-11 PM	693	0.0	1500	693	0	0.49	0	65.1	59.7	42.8
11PM-MID	545	0.0	1500	545	0	0.48	0	65.4	60.1	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	0.0242
MAIN ROUTE WITH WORKS	0.0236
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,197
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
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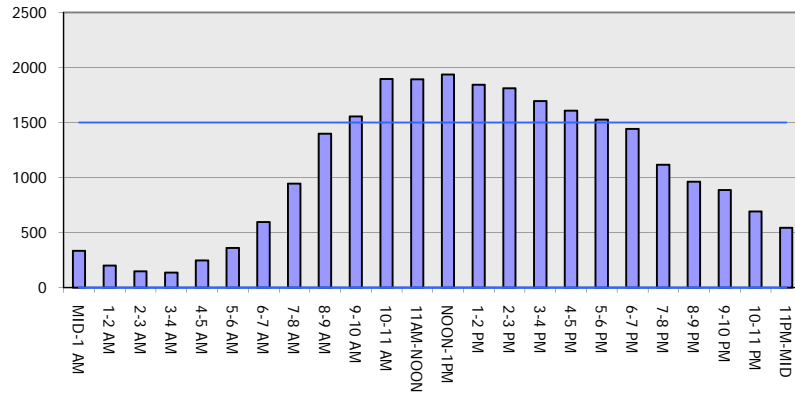
OCTOBER

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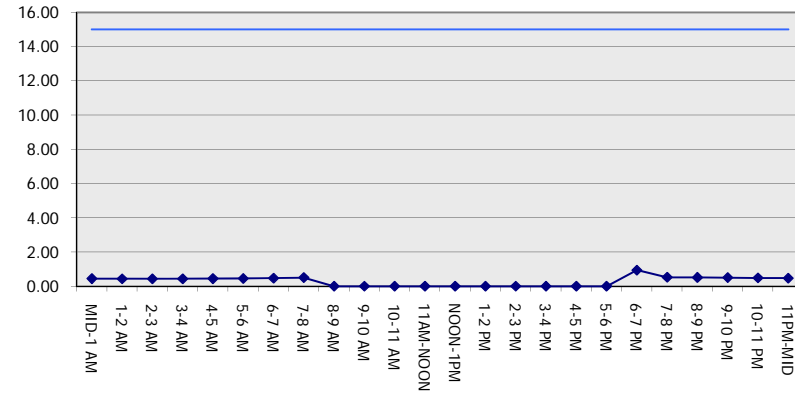
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION

Main Route - Traffic Demand (Vehicles Per Hour)



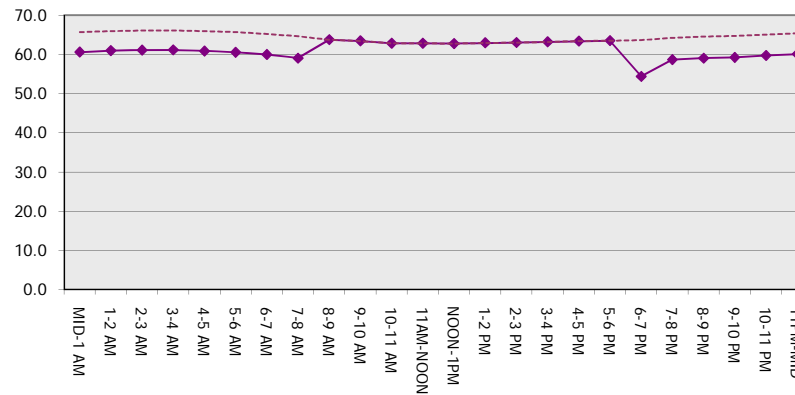
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

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	270	0.0	1500	270	0	0.45	0	65.9	60.8	44.4
1-2 AM	175	0.0	1500	175	0	0.44	0	66.1	61.0	44.8
2-3 AM	171	0.0	1500	171	0	0.44	0	66.1	61.0	44.8
3-4 AM	102	0.0	1500	102	0	0.43	0	66.2	61.2	45.1
4-5 AM	147	0.0	1500	147	0	0.44	0	66.1	61.1	44.9
5-6 AM	249	0.0	1500	249	0	0.45	0	66.0	60.9	44.5
6-7 AM	413	0.0	1500	413	0	0.46	0	65.6	60.4	43.8
7-8 AM	728	0.0	1500	728	0	0.49	0	65.0	59.6	42.7
8-9 AM	1145	0.0	OFF	1145	0	0.00	0	64.3	64.3	64.3
9-10 AM	1395	0.0	OFF	1395	0	0.00	0	63.8	63.8	63.8
10-11 AM	1698	0.0	OFF	1698	0	0.00	0	63.2	63.2	63.2
11AM-NOON	1946	0.0	OFF	1946	0	0.00	0	62.8	62.8	62.8
NOON-1PM	2016	0.0	OFF	2016	0	0.00	0	62.7	62.7	62.7
1-2 PM	1813	0.0	OFF	1813	0	0.00	0	63.0	63.0	63.0
2-3 PM	1871	0.0	OFF	1871	0	0.00	0	62.9	62.9	62.9
3-4 PM	1857	0.0	OFF	1857	0	0.00	0	62.9	62.9	62.9
4-5 PM	1933	0.0	OFF	1933	0	0.00	0	62.8	62.8	62.8
5-6 PM	1788	0.0	OFF	1788	0	0.00	0	63.0	63.0	63.0
6-7 PM	1402	0.0	1500	1402	0	0.90	0	63.8	54.9	32.9
7-8 PM	1315	0.0	1500	1315	0	0.78	0	64.0	56.0	35.1
8-9 PM	1103	0.0	1500	1103	0	0.53	0	64.3	58.7	41.3
9-10 PM	871	0.0	1500	871	0	0.51	0	64.8	59.2	42.2
10-11 PM	577	0.0	1500	577	0	0.48	0	65.3	60.0	43.2
11PM-MID	412	0.0	1500	412	0	0.46	0	65.6	60.4	43.8

"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	0.0239
MAIN ROUTE WITH WORKS	0.0233
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,172
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY NORTHBOUND DIRECTION**

