

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

FRIDAY 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	165	0.0	1500	165	0	0.44	0	66.1	61.1	44.8
1-2 AM	139	0.0	1500	139	0	0.44	0	66.1	61.2	45.0
2-3 AM	119	0.0	1500	119	0	0.43	0	66.1	61.2	45.0
3-4 AM	154	0.0	1500	154	0	0.44	0	66.1	61.1	44.8
4-5 AM	437	0.0	1500	437	0	0.46	0	65.6	60.4	43.7
5-6 AM	854	0.0	OFF	854	0	0.00	0	64.8	64.8	64.8
6-7 AM	1918	0.0	OFF	1918	0	0.00	0	62.8	62.8	62.8
7-8 AM	3102	0.0	OFF	3102	0	0.00	0	54.7	54.7	54.7
8-9 AM	2204	0.0	OFF	2204	0	0.00	0	62.3	62.3	62.3
9-10 AM	1756	0.0	OFF	1756	0	0.00	0	63.1	63.1	63.1
10-11 AM	1837	0.0	OFF	1837	0	0.00	0	63.0	63.0	63.0
11AM-NOON	1915	0.0	OFF	1915	0	0.00	0	62.8	62.8	62.8
NOON-1PM	2021	0.0	OFF	2021	0	0.00	0	62.6	62.6	62.6
1-2 PM	2053	0.0	OFF	2053	0	0.00	0	62.5	62.5	62.5
2-3 PM	2216	0.0	OFF	2216	0	0.00	0	62.3	62.3	62.3
3-4 PM	2578	0.0	OFF	2578	0	0.00	0	60.1	60.1	60.1
4-5 PM	2748	0.0	OFF	2748	0	0.00	0	58.4	58.4	58.4
5-6 PM	2626	0.0	OFF	2626	0	0.00	0	59.6	59.6	59.6
6-7 PM	1765	0.0	OFF	1765	0	0.00	0	63.1	63.1	63.1
7-8 PM	1098	0.0	1500	1098	0	0.53	0	64.3	58.7	41.4
8-9 PM	817	0.0	1500	817	0	0.50	0	64.8	59.4	42.4
9-10 PM	806	0.0	1500	806	0	0.50	0	64.9	59.4	42.4
10-11 PM	664	0.0	1500	664	0	0.49	0	65.1	59.8	42.9
11PM-MID	477	0.0	1500	477	0	0.47	0	65.5	60.3	43.6

"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	0.0324
MAIN ROUTE WITH WORKS	0.0321
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$533
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
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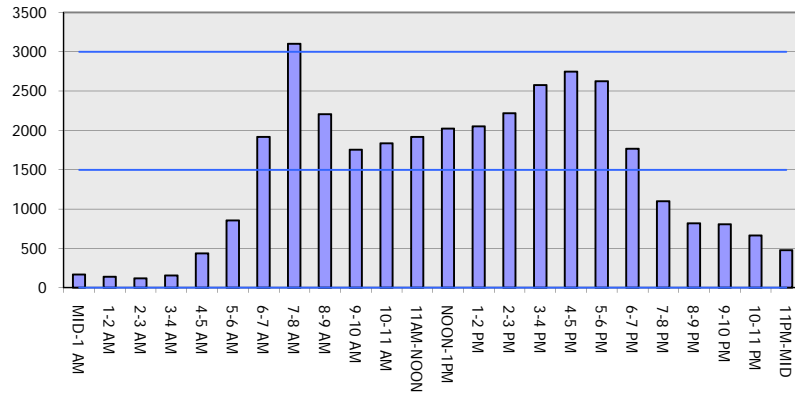
OCTOBER

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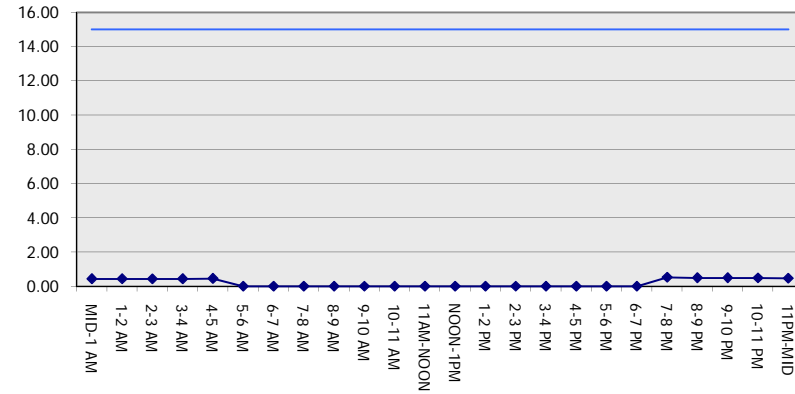
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY SOUTHBOUND DIRECTION

Main Route - Traffic Demand (Vehicles Per Hour)



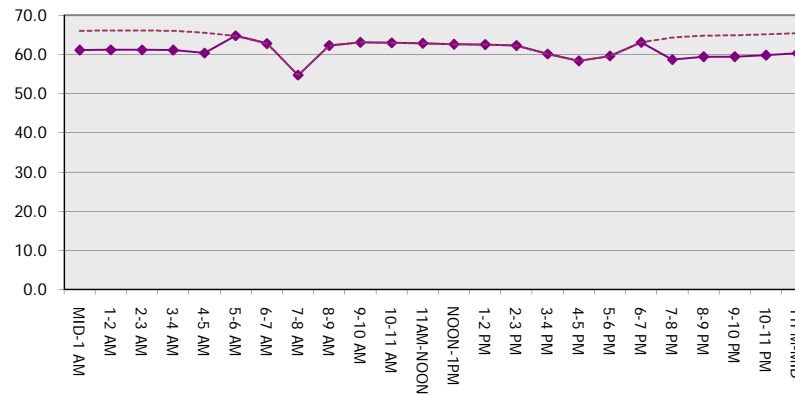
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	262	0.0	1500	262	0	0.45	0	65.9	60.8	44.4
1-2 AM	144	0.0	1500	144	0	0.44	0	66.1	61.1	44.9
2-3 AM	157	0.0	1500	157	0	0.44	0	66.1	61.1	44.8
3-4 AM	119	0.0	1500	119	0	0.43	0	66.1	61.2	45.0
4-5 AM	225	0.0	1500	225	0	0.44	0	66.0	60.9	44.6
5-6 AM	704	0.0	OFF	704	0	0.00	0	65.1	65.1	65.1
6-7 AM	1361	0.0	OFF	1361	0	0.00	0	63.8	63.8	63.8
7-8 AM	2239	0.0	OFF	2239	0	0.00	0	62.2	62.2	62.2
8-9 AM	1661	0.0	OFF	1661	0	0.00	0	63.3	63.3	63.3
9-10 AM	1542	0.0	OFF	1542	0	0.00	0	63.5	63.5	63.5
10-11 AM	1776	0.0	OFF	1776	0	0.00	0	63.1	63.1	63.1
11AM-NOON	1984	0.0	OFF	1984	0	0.00	0	62.7	62.7	62.7
NOON-1PM	2215	0.0	OFF	2215	0	0.00	0	62.3	62.3	62.3
1-2 PM	2289	0.0	OFF	2289	0	0.00	0	62.1	62.1	62.1
2-3 PM	2508	0.0	OFF	2508	0	0.00	0	60.8	60.8	60.8
3-4 PM	3060	0.0	OFF	3060	0	0.00	0	55.1	55.1	55.1
4-5 PM	3348	0.0	OFF	3348	0	0.00	0	52.2	52.2	52.2
5-6 PM	2985	0.0	OFF	2985	0	0.00	0	55.9	55.9	55.9
6-7 PM	2167	0.0	OFF	2167	0	0.00	0	62.3	62.3	62.3
7-8 PM	1568	0.0	1499	1568	0	3.27	61	63.5	40.0	30.8
8-9 PM	1270	0.0	1500	1270	0	1.19	13	64.0	52.7	35.8
9-10 PM	1075	0.0	1500	1075	0	0.53	0	64.4	58.7	41.4
10-11 PM	714	0.0	1500	714	0	0.49	0	65.1	59.7	42.7
11PM-MID	442	0.0	1500	442	0	0.47	0	65.6	60.4	43.7

"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	0.0336
MAIN ROUTE WITH WORKS	0.0333
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,815
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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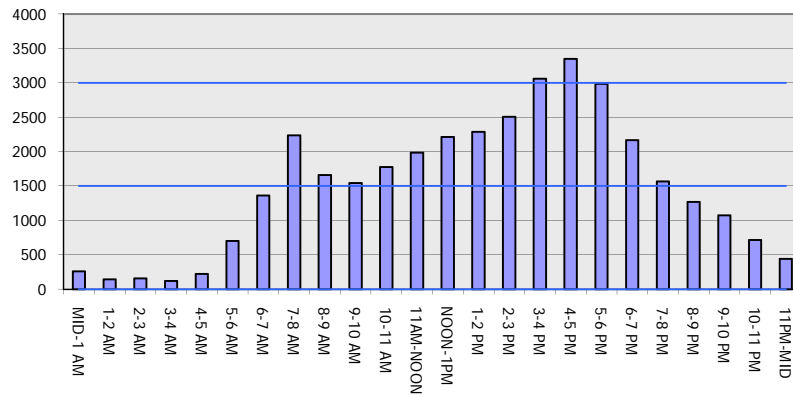
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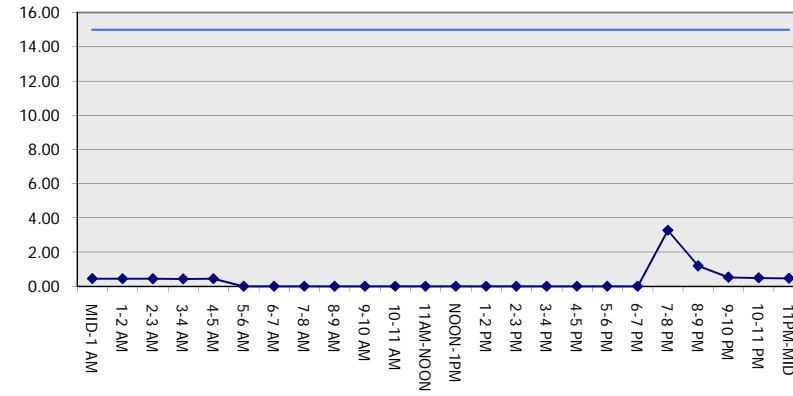
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY NORTHBOUND DIRECTION

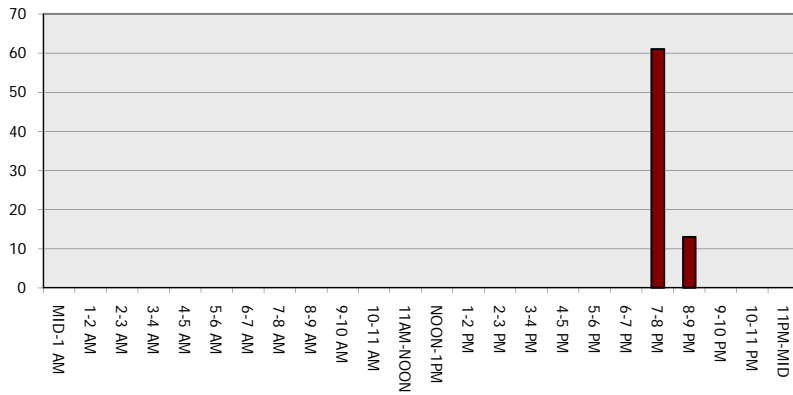
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

