

**USH 41: STH 15 TO STH 125 (OUTAGAMIE COUNTY)
CONTINUOUS (24 HOUR) 2 LANE 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	317	0.0	1500	317	0	0.51	0	70.2	52.7	44.2	
1-2 AM	209	0.0	1500	209	0	0.50	0	70.2	53.0	44.6	
2-3 AM	199	0.0	1500	199	0	0.50	0	70.2	53.0	44.7	
3-4 AM	140	0.0	1500	140	0	0.49	0	70.2	53.2	44.9	
4-5 AM	185	0.0	1500	185	0	0.49	0	70.2	53.1	44.7	
5-6 AM	325	0.0	1500	325	0	0.51	0	70.2	52.7	44.2	
6-7 AM	584	0.0	1500	584	0	0.54	0	70.0	51.8	43.2	
7-8 AM	844	0.0	1500	844	0	0.57	0	69.7	50.9	42.2	
8-9 AM	1105	0.0	1500	1105	0	0.60	0	69.4	50.1	41.3	
9-10 AM	1330	0.0	1499	1330	0	0.87	0	69.1	44.3	34.8	
10-11 AM	1608	0.0	1499	1608	0	2.34	39	68.7	27.6	30.8	
11AM-NOON	1798	0.0	1500	1798	0	9.80	244	68.5	10.1	30.8	
NOON-1PM	2017	0.0	1499	1501	516	16.98+	416	68.2	7.2	30.8	
1-2 PM	2002	0.0	1500	1501	501	16.98+	416	68.2	7.2	30.8	
2-3 PM	2074	0.0	1500	1501	574	16.98+	416	68.2	7.2	30.8	
3-4 PM	2085	0.0	1500	1501	584	16.98+	416	68.1	7.2	30.8	
4-5 PM	2126	0.0	1500	1501	625	16.99+	416	68.1	7.2	30.8	
5-6 PM	1958	0.0	1500	1501	457	16.98+	416	68.3	7.2	30.8	
6-7 PM	1697	0.0	1500	1500	196	16.98+	415	68.6	7.2	30.8	
7-8 PM	1488	0.0	1500	1471	16	16.61+	406	68.9	7.3	30.8	
8-9 PM	1329	0.0	1499	1329	0	12.68	307	69.1	8.5	30.8	
9-10 PM	1156	0.0	1499	1156	0	2.20	76	69.3	28.8	36.9	
10-11 PM	828	0.0	1500	828	0	0.57	0	69.7	51.0	42.3	
11PM-MID	559	0.0	1500	559	0	0.54	0	70.0	51.9	43.3	

+ 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	0.0080
MAIN ROUTE WITH WORKS	0.0054
'DIVERSION'	0.0023
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$85,503
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

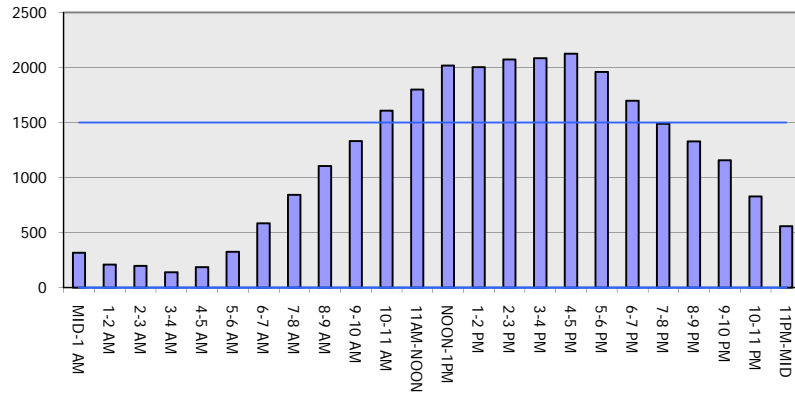
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OCTOBER

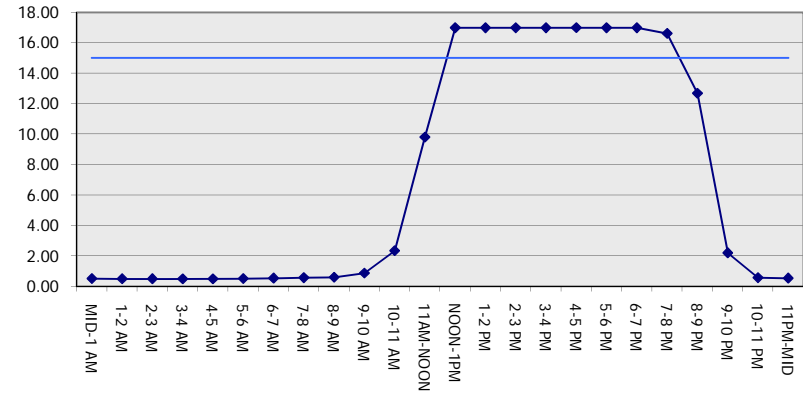
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION

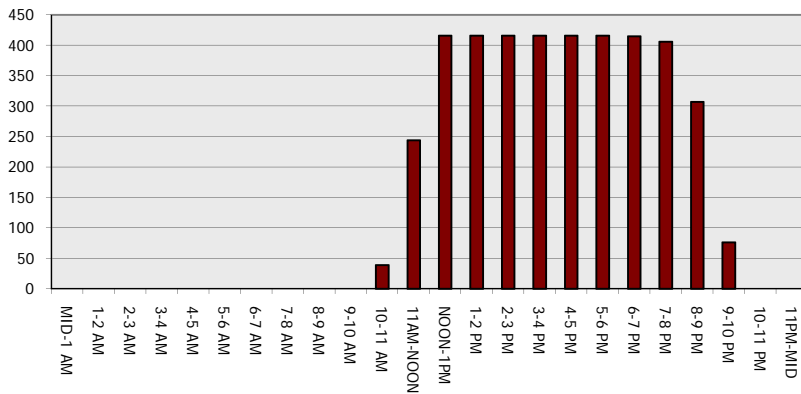
Main Route - Traffic Demand (Vehicles Per Hour)



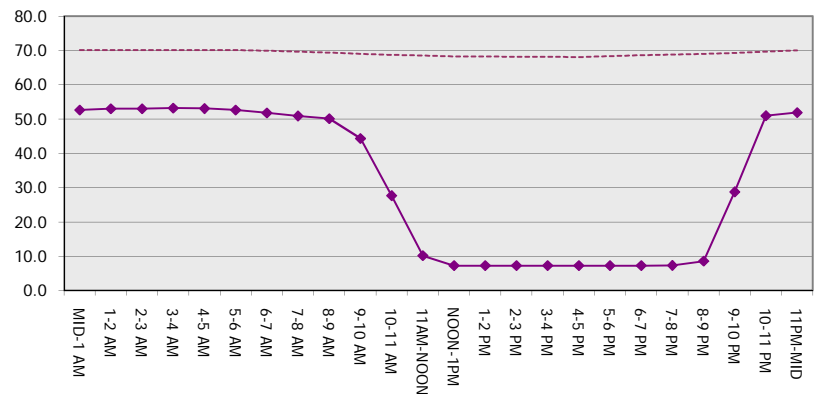
Main Route Average Delay Per Vehicle (Minutes)



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	301	0.0	1500	301	0	0.51	0	70.2	52.7	44.3
1-2 AM	172	0.0	1500	172	0	0.49	0	70.2	53.2	44.8
2-3 AM	165	0.0	1500	165	0	0.49	0	70.2	53.2	44.8
3-4 AM	130	0.0	1500	130	0	0.49	0	70.2	53.3	45.0
4-5 AM	185	0.0	1500	185	0	0.49	0	70.2	53.1	44.7
5-6 AM	282	0.0	1500	282	0	0.51	0	70.2	52.8	44.3
6-7 AM	483	0.0	1500	483	0	0.53	0	70.1	52.2	43.6
7-8 AM	915	0.0	1500	915	0	0.58	0	69.6	50.7	42.0
8-9 AM	1321	0.0	1499	1321	0	0.86	0	69.1	44.6	35.1
9-10 AM	1647	0.0	1499	1647	0	2.54	49	68.7	26.3	30.8
10-11 AM	2093	0.0	1500	1757	336	13.80+	346	68.1	8.1	30.8
11AM-NOON	2286	0.0	1500	1501	785	16.99+	416	67.9	7.2	30.8
NOON-1PM	2314	0.0	1500	1501	813	16.99+	416	67.9	7.2	30.8
1-2 PM	2227	0.0	1500	1501	726	16.99+	416	67.9	7.2	30.8
2-3 PM	2097	0.0	1500	1501	596	16.98+	416	68.1	7.2	30.8
3-4 PM	2018	0.0	1500	1501	517	16.98+	416	68.2	7.2	30.8
4-5 PM	1993	0.0	1500	1501	492	16.98+	416	68.2	7.2	30.8
5-6 PM	1860	0.0	1500	1501	360	16.98+	416	68.4	7.2	30.8
6-7 PM	1629	0.0	1500	1501	128	16.97+	415	68.7	7.2	30.8
7-8 PM	1181	0.0	1499	1181	0	10.63	274	69.2	9.7	32.7
8-9 PM	898	0.0	1500	898	0	0.74	7	69.6	47.1	42.0
9-10 PM	735	0.0	1500	735	0	0.56	0	69.8	51.3	42.6
10-11 PM	589	0.0	1500	589	0	0.54	0	70.0	51.8	43.2
11PM-MID	446	0.0	1500	446	0	0.53	0	70.2	52.3	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	0.0080
MAIN ROUTE WITH WORKS	0.0051
'DIVERSION'	0.0032

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$91,666
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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SATURDAY NORTHBOUND DIRECTION

