

<b>IH 43: STH 57/167 TO STH 100 (MILWAUKEE AND OZAUKEE COUNTIES)                  CONTINUOUS (24 HOUR) CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                  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	264	0.0	1500	264	0	0.45	0	65.9	56.9	44.4	
1-2 AM	205	0.0	1500	205	0	0.44	0	66.0	57.1	44.6	
2-3 AM	132	0.0	1500	132	0	0.44	0	66.1	57.3	45.0	
3-4 AM	148	0.0	1500	148	0	0.44	0	66.1	57.2	44.9	
4-5 AM	345	0.0	1500	345	0	0.46	0	65.8	56.6	44.1	
5-6 AM	1108	0.0	1499	1108	0	0.68	0	64.3	52.0	37.7	
6-7 AM	2665	0.0	1499	1920	745	11.55+	311	59.2	13.0	30.8	
7-8 AM	3662	0.0	1499	1500	2162	15.39+	412	49.0	10.3	30.8	
8-9 AM	3148	0.0	1500	1498	1650	15.76+	412	54.3	10.3	30.8	
9-10 AM	2281	0.0	1500	1500	782	16.08+	408	62.2	10.4	30.8	
10-11 AM	2033	0.0	1500	1500	534	16.09+	407	62.6	10.4	30.8	
11AM-NOON	2140	0.0	1499	1500	641	16.09+	407	62.4	10.4	30.8	
NOON-1PM	2194	0.0	1500	1500	694	16.08+	407	62.3	10.4	30.8	
1-2 PM	2141	0.0	1499	1500	642	16.09+	407	62.4	10.4	30.8	
2-3 PM	2372	0.0	1500	1500	872	16.07+	408	62.0	10.4	30.8	
3-4 PM	2648	0.0	1499	1498	1150	15.95+	408	59.4	10.3	30.8	
4-5 PM	2587	0.0	1500	1499	1088	15.97+	408	60.0	10.4	30.8	
5-6 PM	2842	0.0	1499	1499	1343	15.89+	410	57.4	10.3	30.8	
6-7 PM	2127	0.0	1500	1500	627	16.09+	407	62.4	10.4	30.8	
7-8 PM	1413	0.0	1500	1392	22	15.15+	382	63.8	10.7	30.8	
8-9 PM	1086	0.0	1499	1086	0	3.41	125	64.3	29.6	36.9	
9-10 PM	890	0.0	1500	890	0	0.51	0	64.7	55.0	42.0	
10-11 PM	634	0.0	1500	634	0	0.48	0	65.2	55.8	43.0	
11PM-MID	399	0.0	1500	399	0	0.46	0	65.6	56.4	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	0.0195
MAIN ROUTE WITH WORKS	0.0113
'DIVERSION'	0.0148
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$118,184
CONGESTED HOURS PER DAY*	14

\*Delays Exceeding User-Specified Maximum

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 CONTINUOUS (24 HOUR) CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

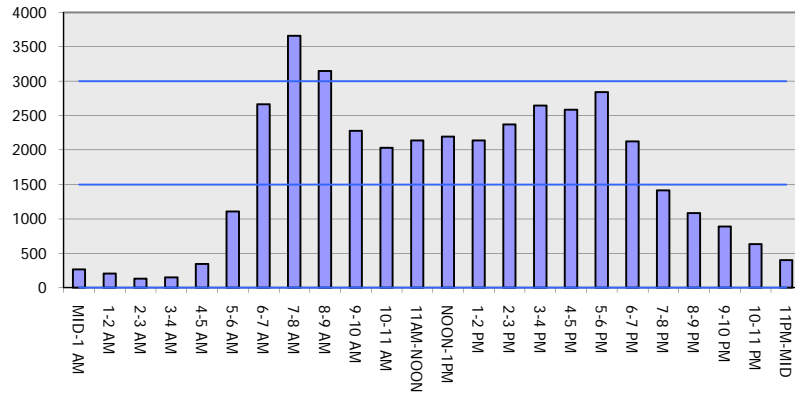
Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

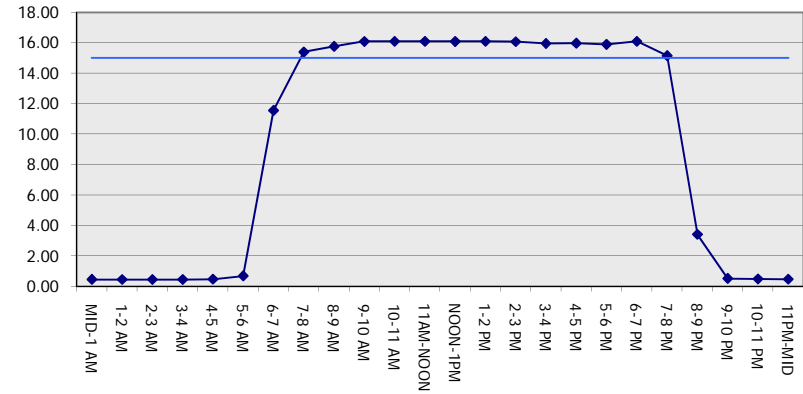
**MON-THUR**

**SOUTHBOUND DIRECTION**

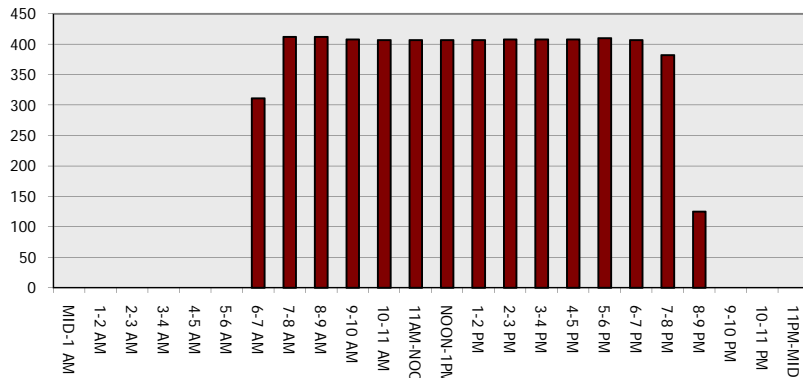
**Main Route - Traffic Demand (Vehicles Per Hour)**



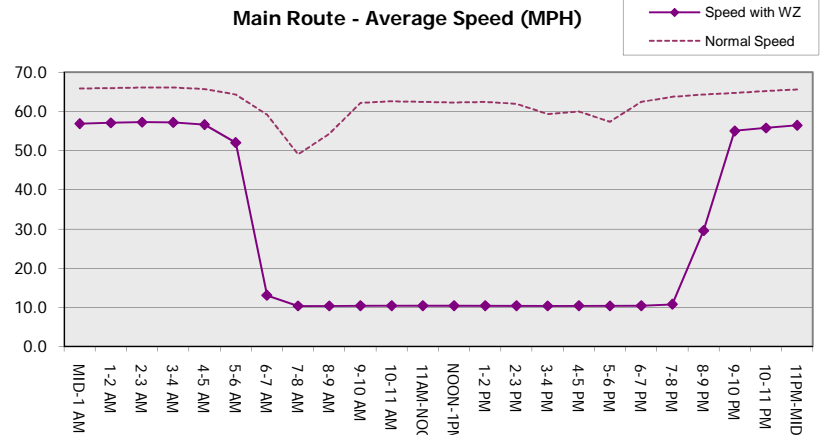
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



<b>IH 43: STH 57/167 TO STH 100 (MILWAUKEE AND OZAUKEE COUNTIES)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                      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	261	0.0	1500	261	0	0.45	0	65.9	56.9	44.5
1-2 AM	153	0.0	1500	153	0	0.44	0	66.1	57.2	44.9
2-3 AM	139	0.0	1500	139	0	0.44	0	66.1	57.3	45.0
3-4 AM	144	0.0	1500	144	0	0.44	0	66.1	57.3	44.9
4-5 AM	242	0.0	1500	242	0	0.45	0	66.0	56.9	44.5
5-6 AM	692	0.0	1500	692	0	0.49	0	65.1	55.6	42.8
6-7 AM	1562	0.0	1499	1562	0	1.82	34	63.5	39.1	32.5
7-8 AM	2422	0.0	1500	1774	649	14.10+	369	61.7	11.3	32.5
8-9 AM	2365	0.0	1499	1500	865	16.07+	408	62.0	10.4	30.8
9-10 AM	1928	0.0	1500	1500	428	16.10+	407	62.8	10.4	30.8
10-11 AM	1840	0.0	1499	1500	340	16.11+	407	63.0	10.4	30.8
11AM-NOON	2003	0.0	1499	1500	503	16.09+	407	62.7	10.4	30.8
NOON-1PM	2120	0.0	1500	1500	620	16.09+	407	62.4	10.4	30.8
1-2 PM	2157	0.0	1500	1500	657	16.08+	407	62.3	10.4	30.8
2-3 PM	2561	0.0	1499	1499	1062	15.99+	408	60.2	10.3	30.8
3-4 PM	3160	0.0	1499	1500	1660	15.77+	412	54.2	10.3	30.8
4-5 PM	3420	0.0	1500	1500	1920	15.59+	413	51.5	10.3	30.8
5-6 PM	3594	0.0	1500	1500	2094	15.45+	413	49.7	10.3	30.8
6-7 PM	2670	0.0	1500	1500	1171	15.96+	409	59.1	10.3	30.8
7-8 PM	1774	0.0	1500	1500	274	16.11+	407	63.1	10.4	30.8
8-9 PM	1478	0.0	1500	1455	23	15.77+	397	63.7	10.5	30.8
9-10 PM	1230	0.0	1499	1230	0	9.68	253	64.1	14.8	32.2
10-11 PM	754	0.0	1500	754	0	0.67	7	65.0	52.7	42.5
11PM-MID	464	0.0	1500	464	0	0.47	0	65.5	56.3	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	0.0193
MAIN ROUTE WITH WORKS	0.0115
'DIVERSION'	0.0140

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$119,407
CONGESTED HOURS PER DAY*	14

\*Delays Exceeding User-Specified Maximum

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 CONTINUOUS (24 HOUR) CLOSURE  
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**OCTOBER**

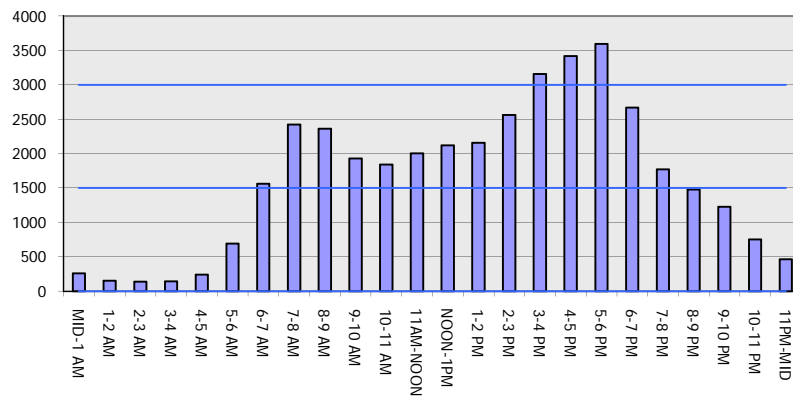
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

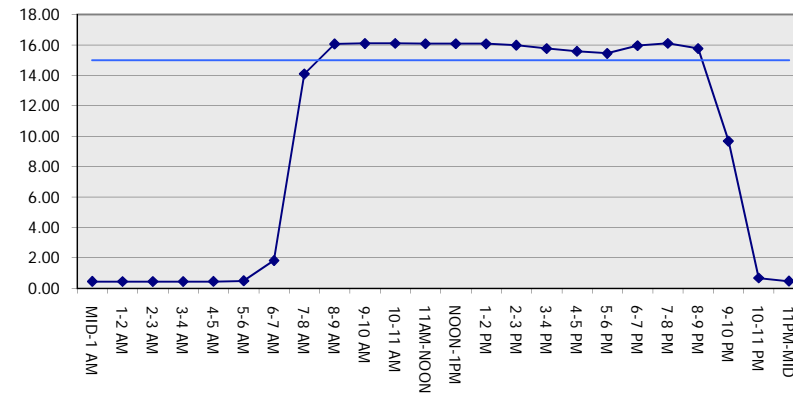
**MON-THUR**

**NORTHBOUND DIRECTION**

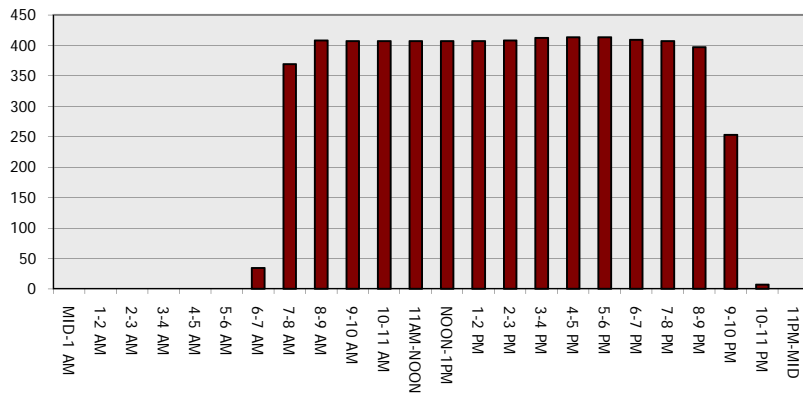
**Main Route - Traffic Demand (Vehicles Per Hour)**



**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**

