

<b>IH 43: STH 57/167 TO STH 100 (MILWAUKEE AND OZAUKEE COUNTIES)</b> <b>OFF-PEAK DAY 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                  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	OFF	264	0	0.00	0	65.9	65.9	65.9	
1-2 AM	205	0.0	OFF	205	0	0.00	0	66.0	66.0	66.0	
2-3 AM	132	0.0	OFF	132	0	0.00	0	66.1	66.1	66.1	
3-4 AM	148	0.0	OFF	148	0	0.00	0	66.1	66.1	66.1	
4-5 AM	345	0.0	OFF	345	0	0.00	0	65.8	65.8	65.8	
5-6 AM	1108	0.0	OFF	1108	0	0.00	0	64.3	64.3	64.3	
6-7 AM	2665	0.0	OFF	2665	0	0.00	0	59.2	59.2	59.2	
7-8 AM	3662	0.0	OFF	3662	0	0.00	0	49.0	49.0	49.0	
8-9 AM	3148	0.0	OFF	3148	0	0.00	0	54.3	54.3	54.3	
9-10 AM	2281	0.0	1499	1959	322	12.17+	319	62.2	12.6	30.8	
10-11 AM	2033	0.0	1499	1497	536	16.09+	407	62.6	10.4	30.8	
11AM-NOON	2140	0.0	1499	1498	643	16.09+	407	62.4	10.4	30.8	
NOON-1PM	2194	0.0	1499	1498	696	16.08+	407	62.3	10.4	30.8	
1-2 PM	2141	0.0	1499	1498	643	16.09+	407	62.4	10.4	30.8	
2-3 PM	2372	0.0	1499	1497	875	16.08+	408	62.0	10.4	30.8	
3-4 PM	2648	0.0	1499	1490	1157	15.98+	409	59.4	10.3	30.8	
4-5 PM	2587	0.0	OFF	2587	0	1.26	67	60.0	42.7	42.7	
5-6 PM	2842	0.0	OFF	2842	0	0.00	0	57.4	57.4	57.4	
6-7 PM	2127	0.0	OFF	2127	0	0.00	0	62.4	62.4	62.4	
7-8 PM	1413	0.0	OFF	1413	0	0.00	0	63.8	63.8	63.8	
8-9 PM	1086	0.0	OFF	1086	0	0.00	0	64.3	64.3	64.3	
9-10 PM	890	0.0	OFF	890	0	0.00	0	64.7	64.7	64.7	
10-11 PM	634	0.0	OFF	634	0	0.00	0	65.2	65.2	65.2	
11PM-MID	399	0.0	OFF	399	0	0.00	0	65.6	65.6	65.6	

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

+ 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	0.0163
'DIVERSION'	0.0056
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$53,939
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding User-Specified Maximum

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**OFF-PEAK DAY CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

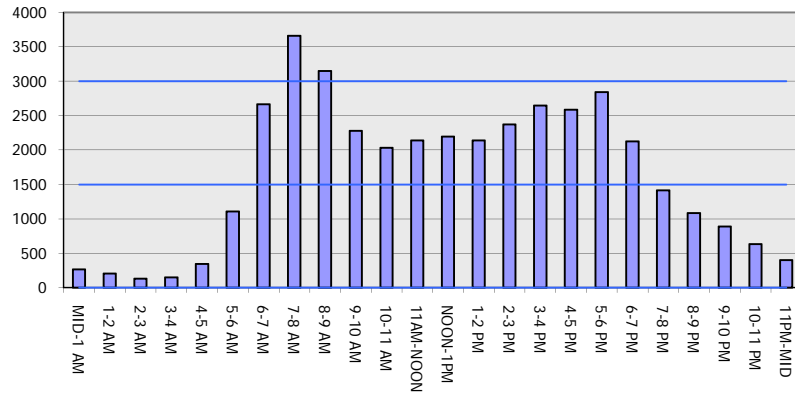
**OCTOBER**

Analyzed for 2009  
 Construction Season

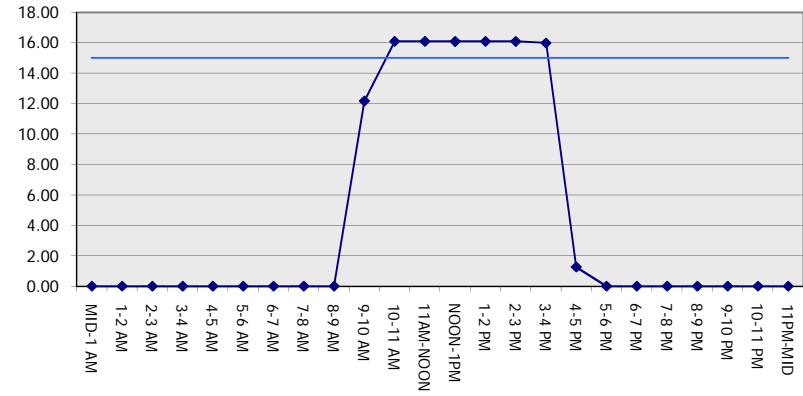
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**MON-THUR SOUTHBOUND DIRECTION**

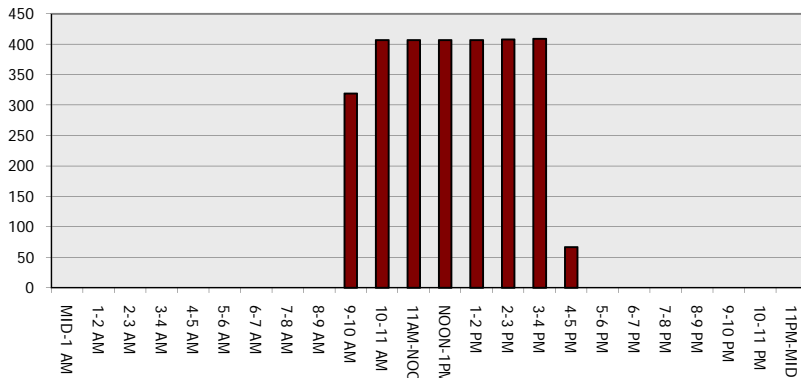
**Main Route - Traffic Demand (Vehicles Per Hour)**



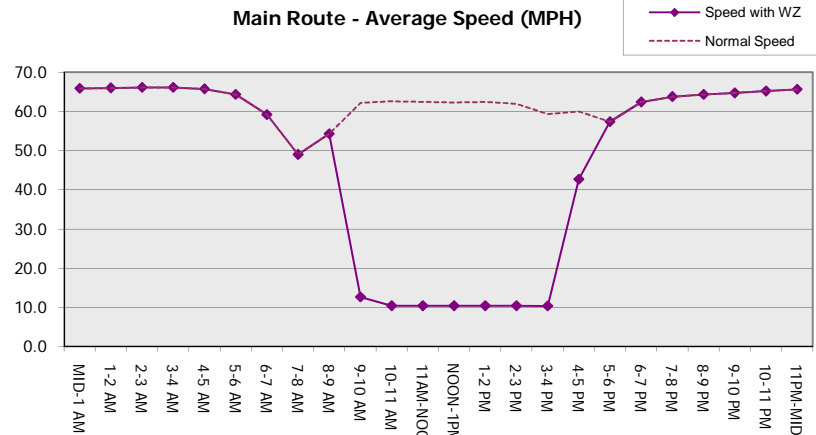
**Main Route Average Delay Per Vehicle (Minutes)**



**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>OFF-PEAK DAY 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	OFF	261	0	0.00	0	65.9	65.9	65.9
1-2 AM	153	0.0	OFF	153	0	0.00	0	66.1	66.1	66.1
2-3 AM	139	0.0	OFF	139	0	0.00	0	66.1	66.1	66.1
3-4 AM	144	0.0	OFF	144	0	0.00	0	66.1	66.1	66.1
4-5 AM	242	0.0	OFF	242	0	0.00	0	66.0	66.0	66.0
5-6 AM	692	0.0	OFF	692	0	0.00	0	65.1	65.1	65.1
6-7 AM	1562	0.0	OFF	1562	0	0.00	0	63.5	63.5	63.5
7-8 AM	2422	0.0	OFF	2422	0	0.00	0	61.7	61.7	61.7
8-9 AM	2365	0.0	OFF	2365	0	0.00	0	62.0	62.0	62.0
9-10 AM	1928	0.0	1499	1928	0	8.27	230	62.8	16.7	30.8
10-11 AM	1840	0.0	1499	1499	341	16.11+	407	63.0	10.4	30.8
11AM-NOON	2003	0.0	1499	1499	504	16.09+	407	62.7	10.4	30.8
NOON-1PM	2120	0.0	1499	1499	621	16.09+	407	62.4	10.4	30.8
1-2 PM	2157	0.0	1499	1499	658	16.08+	407	62.3	10.4	30.8
2-3 PM	2561	0.0	1499	1497	1065	16.00+	408	60.2	10.3	30.8
3-4 PM	3160	0.0	1499	1498	1663	15.77+	412	54.2	10.3	30.8
4-5 PM	3420	0.0	OFF	3420	0	2.60	151	51.5	29.9	29.9
5-6 PM	3594	0.0	OFF	3594	0	0.00	0	49.7	49.7	49.7
6-7 PM	2670	0.0	OFF	2670	0	0.00	0	59.1	59.1	59.1
7-8 PM	1774	0.0	OFF	1774	0	0.00	0	63.1	63.1	63.1
8-9 PM	1478	0.0	OFF	1478	0	0.00	0	63.7	63.7	63.7
9-10 PM	1230	0.0	OFF	1230	0	0.00	0	64.1	64.1	64.1
10-11 PM	754	0.0	OFF	754	0	0.00	0	65.0	65.0	65.0
11PM-MID	464	0.0	OFF	464	0	0.00	0	65.5	65.5	65.5

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

+ 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	0.0162
'DIVERSION'	0.0055

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$53,497
CONGESTED HOURS PER DAY*	6

\*Delays Exceeding User-Specified Maximum

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**OFF-PEAK DAY CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

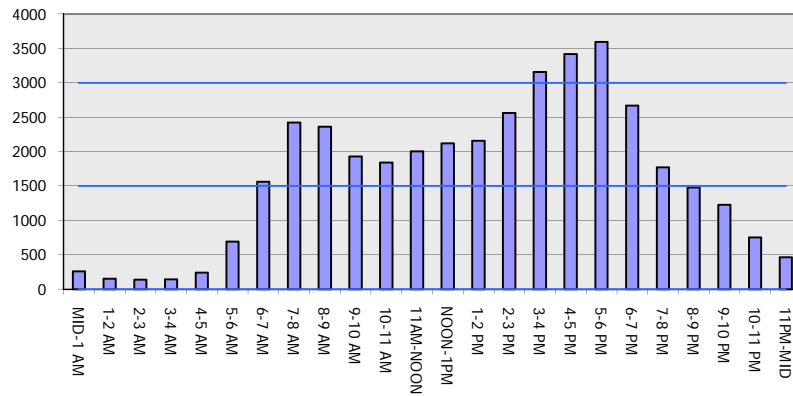
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

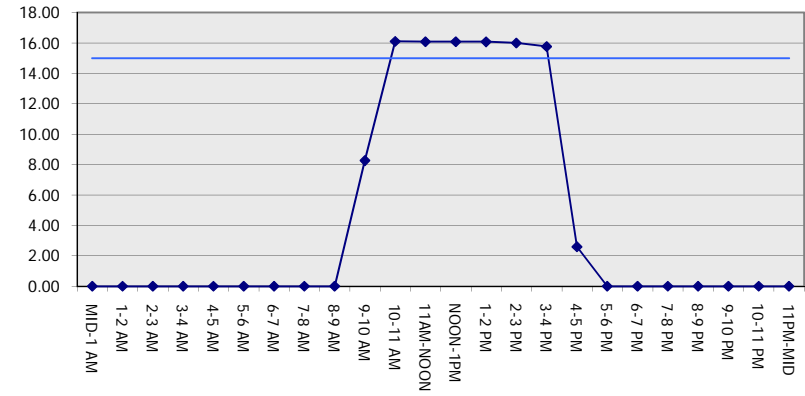
**MON-THUR**

**NORTHBOUND DIRECTION**

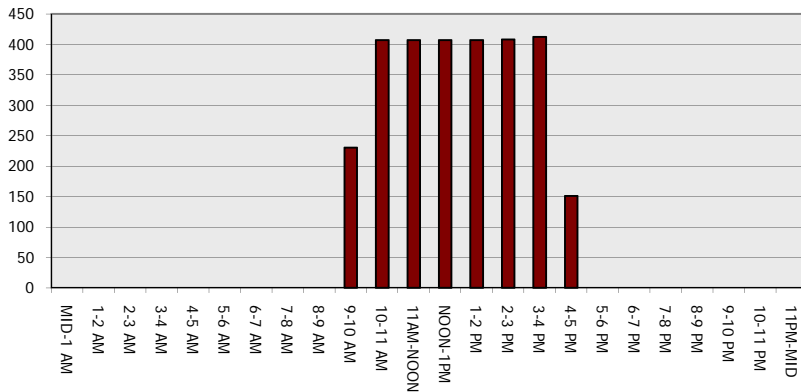
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

