

<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**

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	353	0.0	OFF	353	0	0.00	0	65.7	65.7	65.7	
1-2 AM	155	0.0	OFF	155	0	0.00	0	66.1	66.1	66.1	
2-3 AM	114	0.0	OFF	114	0	0.00	0	66.2	66.2	66.2	
3-4 AM	111	0.0	OFF	111	0	0.00	0	66.2	66.2	66.2	
4-5 AM	201	0.0	OFF	201	0	0.00	0	66.0	66.0	66.0	
5-6 AM	385	0.0	OFF	385	0	0.00	0	65.6	65.6	65.6	
6-7 AM	628	0.0	OFF	628	0	0.00	0	65.2	65.2	65.2	
7-8 AM	1152	0.0	OFF	1152	0	0.00	0	64.2	64.2	64.2	
8-9 AM	1644	0.0	1499	1644	0	2.49	48	63.3	34.3	30.8	
9-10 AM	1907	0.0	1500	1751	156	11.96+	312	62.8	12.7	30.8	
10-11 AM	2042	0.0	1499	1501	542	16.09+	407	62.6	10.4	30.8	
11AM-NOON	2222	0.0	1500	1501	721	16.08+	407	62.2	10.4	30.8	
NOON-1PM	2403	0.0	1500	1501	902	16.07+	408	61.9	10.4	30.8	
1-2 PM	2311	0.0	1500	1501	811	16.07+	408	62.1	10.4	30.8	
2-3 PM	2179	0.0	1500	1501	679	16.08+	407	62.3	10.4	30.8	
3-4 PM	2321	0.0	1500	1500	821	16.07+	408	62.0	10.4	30.8	
4-5 PM	2280	0.0	1500	1500	780	16.08+	408	62.2	10.4	30.8	
5-6 PM	2293	0.0	1500	1500	792	16.08+	408	62.1	10.4	30.8	
6-7 PM	2070	0.0	OFF	2070	0	0.68	41	62.5	50.9	50.9	
7-8 PM	1586	0.0	OFF	1586	0	0.00	0	63.4	63.4	63.4	
8-9 PM	1216	0.0	OFF	1216	0	0.00	0	64.1	64.1	64.1	
9-10 PM	1093	0.0	OFF	1093	0	0.00	0	64.3	64.3	64.3	
10-11 PM	916	0.0	OFF	916	0	0.00	0	64.7	64.7	64.7	
11PM-MID	681	0.0	OFF	681	0	0.00	0	65.1	65.1	65.1	

"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	0.0159
MAIN ROUTE WITH WORKS	0.0118
'DIVERSION'	0.0071
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$87,531
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding User-Specified Maximum

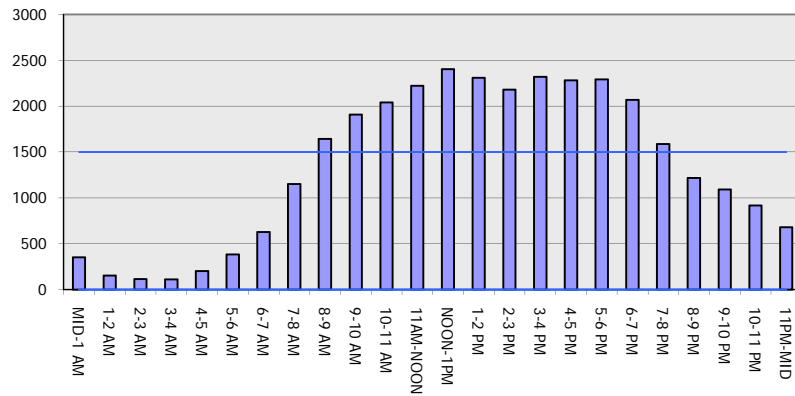
**IH 43: STH 57/167 TO STH 100 (MILWAUKEE AND OZAUKEE COUNTIES)**  
**OFF-PEAK DAY CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

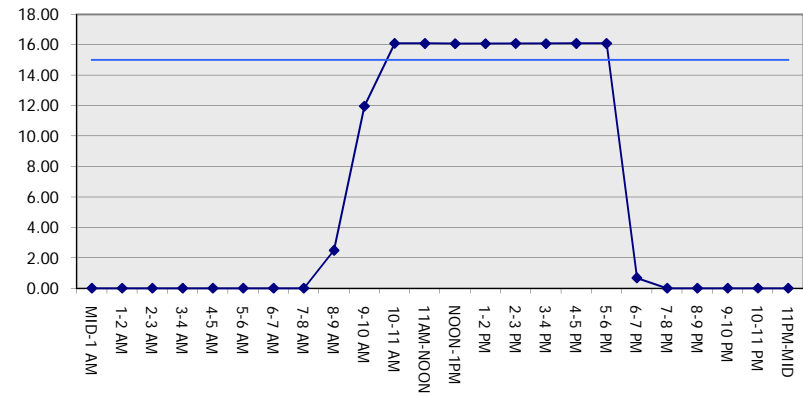
Analyzed for 2009  
 Construction Season

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

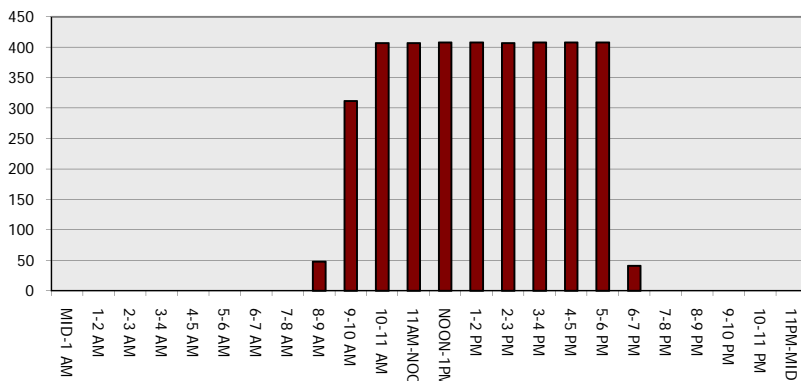
**Main Route - Traffic Demand (Vehicles Per Hour)**



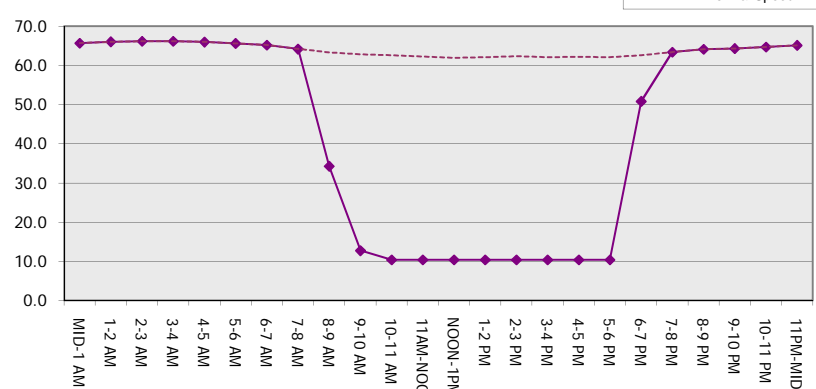
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



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	Analyzed for 2009 Construction Season

**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	504	0.0	OFF	504	0	0.00	0	65.5	65.5	65.5
1-2 AM	301	0.0	OFF	301	0	0.00	0	65.8	65.8	65.8
2-3 AM	258	0.0	OFF	258	0	0.00	0	65.9	65.9	65.9
3-4 AM	194	0.0	OFF	194	0	0.00	0	66.0	66.0	66.0
4-5 AM	245	0.0	OFF	245	0	0.00	0	66.0	66.0	66.0
5-6 AM	371	0.0	OFF	371	0	0.00	0	65.7	65.7	65.7
6-7 AM	646	0.0	OFF	646	0	0.00	0	65.2	65.2	65.2
7-8 AM	1210	0.0	OFF	1210	0	0.00	0	64.1	64.1	64.1
8-9 AM	1699	0.0	1499	1699	0	3.18	72	63.2	30.4	30.8
9-10 AM	2058	0.0	1500	1730	328	14.06+	360	62.5	11.3	30.8
10-11 AM	2478	0.0	1499	1498	980	16.03+	408	61.1	10.4	30.8
11AM-NOON	2588	0.0	1499	1496	1092	15.98+	408	60.0	10.3	30.8
NOON-1PM	2703	0.0	1499	1494	1209	15.93+	409	58.8	10.3	30.8
1-2 PM	2626	0.0	1499	1498	1128	15.96+	408	59.6	10.3	30.8
2-3 PM	2551	0.0	1500	1500	1051	15.99+	408	60.4	10.4	30.8
3-4 PM	2554	0.0	1500	1500	1054	15.99+	408	60.4	10.4	30.8
4-5 PM	2352	0.0	1500	1500	853	16.07+	408	62.0	10.4	30.8
5-6 PM	2181	0.0	1500	1500	682	16.08+	407	62.3	10.4	30.8
6-7 PM	1875	0.0	OFF	1875	0	0.64	40	62.9	51.7	51.7
7-8 PM	1422	0.0	OFF	1422	0	0.00	0	63.7	63.7	63.7
8-9 PM	1301	0.0	OFF	1301	0	0.00	0	64.0	64.0	64.0
9-10 PM	1197	0.0	OFF	1197	0	0.00	0	64.1	64.1	64.1
10-11 PM	1208	0.0	OFF	1208	0	0.00	0	64.1	64.1	64.1
11PM-MID	852	0.0	OFF	852	0	0.00	0	64.8	64.8	64.8

"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	0.0175
MAIN ROUTE WITH WORKS	0.0123
'DIVERSION'	0.0096

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$97,853
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding User-Specified Maximum

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**OCTOBER**

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 Construction Season

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

