

<b>IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</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	1141	0.0	1499	1141	0	3.36	103	69.3	36.4	36.5	
1-2 AM	689	0.0	1500	689	0	0.55	0	69.9	60.8	42.8	
2-3 AM	570	0.0	1500	570	0	0.54	0	70.0	61.0	43.2	
3-4 AM	478	0.0	1500	478	0	0.53	0	70.1	61.3	43.6	
4-5 AM	546	0.0	1500	546	0	0.54	0	70.0	61.1	43.3	
5-6 AM	1018	0.0	1499	1018	0	0.61	0	69.5	59.6	40.9	
6-7 AM	1696	0.0	1499	1696	0	2.69	55	68.6	40.0	30.8	
7-8 AM	2388	0.0	1500	1763	625	15.06+	375	67.8	13.7	31.9	
8-9 AM	3123	0.0	1499	1500	1623	16.26+	399	66.9	12.8	30.8	
9-10 AM	3585	0.0	1500	1500	2085	16.23+	399	66.3	12.8	30.8	
10-11 AM	4099	0.0	1500	1500	2599	16.02+	399	62.8	12.8	30.8	
11AM-NOON	4312	0.0	1500	1500	2812	15.92+	399	61.4	12.8	30.8	
NOON-1PM	4498	0.0	1500	1500	2998	15.83+	399	60.1	12.8	30.8	
1-2 PM	4473	0.0	1500	1500	2973	15.84+	399	60.3	12.8	30.8	
2-3 PM	4270	0.0	1500	1500	2770	15.94+	400	61.7	12.8	30.8	
3-4 PM	4207	0.0	1500	1500	2707	15.97+	399	62.1	12.8	30.8	
4-5 PM	3999	0.0	1500	1500	2499	16.06+	399	63.5	12.8	30.8	
5-6 PM	3585	0.0	1500	1500	2085	16.23+	399	66.3	12.8	30.8	
6-7 PM	3017	0.0	1500	1500	1517	16.27+	399	67.0	12.8	30.8	
7-8 PM	2541	0.0	1500	1500	1041	16.31+	400	67.6	12.8	30.8	
8-9 PM	2182	0.0	1500	1499	683	16.33+	399	68.0	12.8	30.8	
9-10 PM	1983	0.0	1499	1479	504	16.26+	397	68.2	12.9	30.8	
10-11 PM	1678	0.0	1499	1468	210	16.23+	396	68.6	12.9	30.8	
11PM-MID	1343	0.0	1499	1343	0	14.07+	343	69.1	14.5	30.8	

+ 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	0.0420
MAIN ROUTE WITH WORKS	0.0196
'DIVERSION'	0.0471
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$244,777
CONGESTED HOURS PER DAY*	17

\*Delays Exceeding User-Specified Maximum

**IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

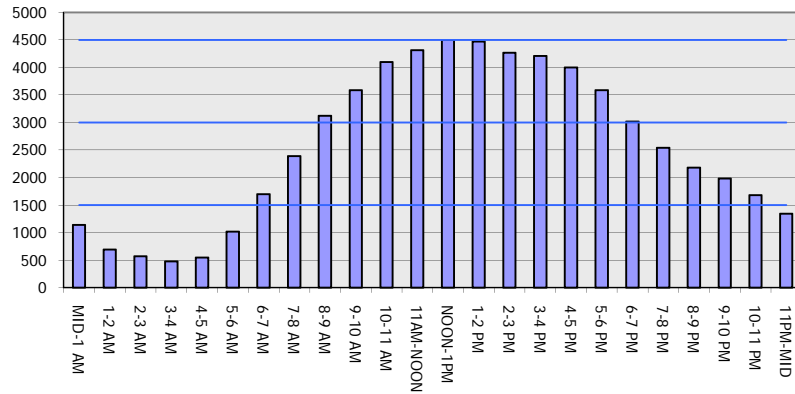
**AUGUST**

Analyzed for 2009  
Construction Season

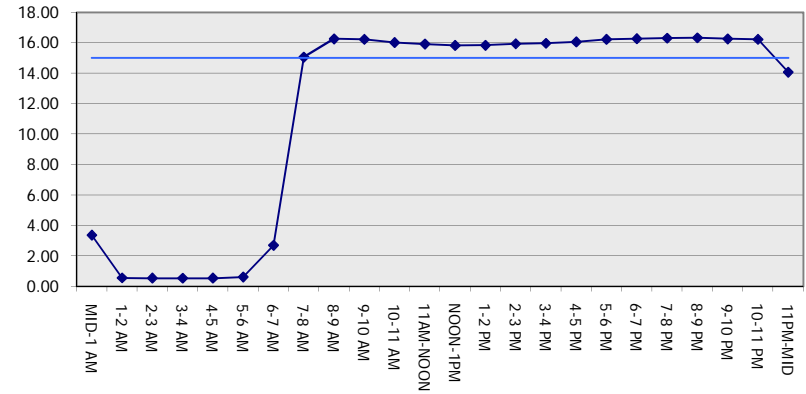
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SATURDAY SOUTHBOUND DIRECTION**

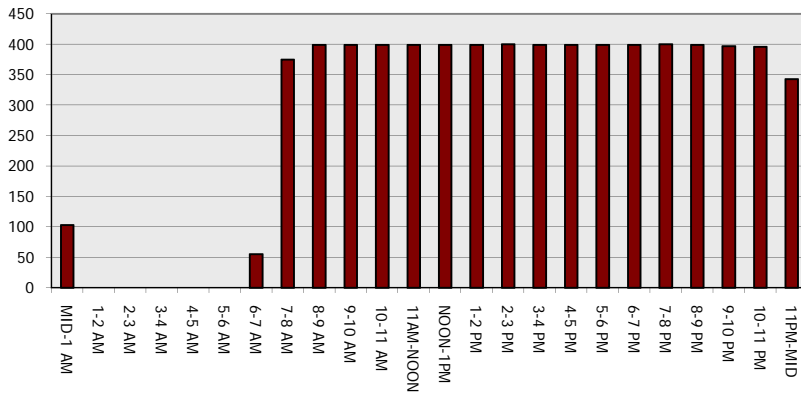
**Main Route - Traffic Demand (Vehicles Per Hour)**



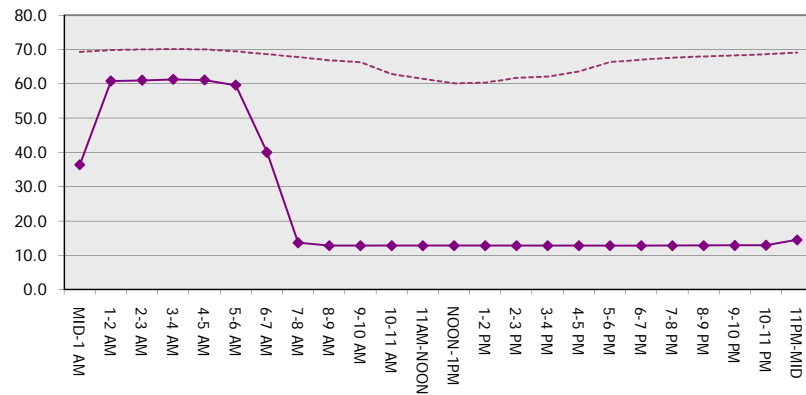
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



<b>IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	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	1075	0.0	1499	1075	0	4.07	136	69.4	33.2	36.7	
1-2 AM	604	0.0	1500	604	0	0.54	0	70.0	61.0	43.1	
2-3 AM	518	0.0	1500	518	0	0.53	0	70.1	61.2	43.4	
3-4 AM	456	0.0	1500	456	0	0.53	0	70.2	61.4	43.7	
4-5 AM	686	0.0	1500	686	0	0.55	0	69.9	60.8	42.8	
5-6 AM	1174	0.0	1499	1174	0	0.69	0	69.3	58.4	38.9	
6-7 AM	1420	0.0	1499	1420	0	1.02	0	69.0	54.2	32.7	
7-8 AM	1878	0.0	1500	1878	0	5.85	158	68.4	26.8	30.8	
8-9 AM	2523	0.0	1499	1500	1023	16.31+	399	67.6	12.8	30.8	
9-10 AM	3190	0.0	1500	1500	1690	16.26+	400	66.8	12.8	30.8	
10-11 AM	3635	0.0	1500	1500	2135	16.22+	400	66.0	12.8	30.8	
11AM-NOON	3996	0.0	1500	1500	2496	16.06+	400	63.5	12.8	30.8	
NOON-1PM	4210	0.0	1500	1500	2710	15.97+	400	62.1	12.8	30.8	
1-2 PM	4180	0.0	1500	1500	2680	15.98+	400	62.3	12.8	30.8	
2-3 PM	4352	0.0	1500	1500	2852	15.90+	400	61.1	12.8	30.8	
3-4 PM	4323	0.0	1500	1500	2823	15.92+	400	61.3	12.8	30.8	
4-5 PM	4102	0.0	1500	1500	2602	16.02+	400	62.8	12.8	30.8	
5-6 PM	3857	0.0	1500	1500	2357	16.12+	400	64.5	12.8	30.8	
6-7 PM	3345	0.0	1500	1500	1845	16.25+	400	66.6	12.8	30.8	
7-8 PM	2894	0.0	1500	1500	1394	16.28+	400	67.1	12.8	30.8	
8-9 PM	2626	0.0	1500	1500	1126	16.30+	400	67.4	12.8	30.8	
9-10 PM	2461	0.0	1500	1500	961	16.31+	400	67.7	12.8	30.8	
10-11 PM	1948	0.0	1500	1500	448	16.35+	400	68.3	12.8	30.8	
11PM-MID	1430	0.0	1500	1430	0	15.32+	373	68.9	13.5	30.8	

+ 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	0.0417
MAIN ROUTE WITH WORKS	0.0196
'DIVERSION'	0.0462

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$239,125
CONGESTED HOURS PER DAY*	16

\*Delays Exceeding User-Specified Maximum

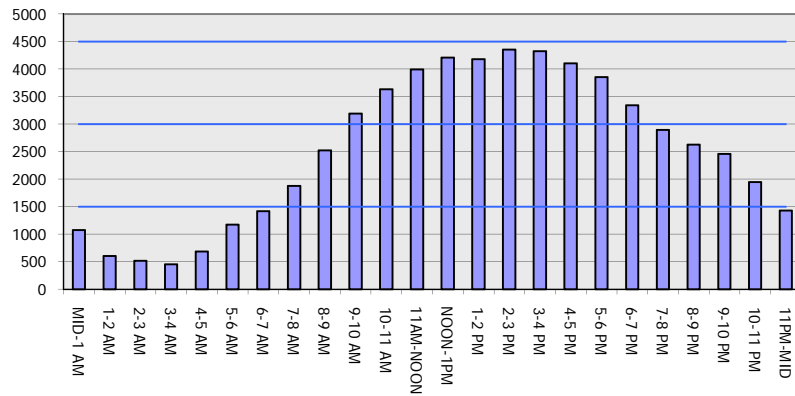
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**CONTINUOUS (24 HOUR) 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**

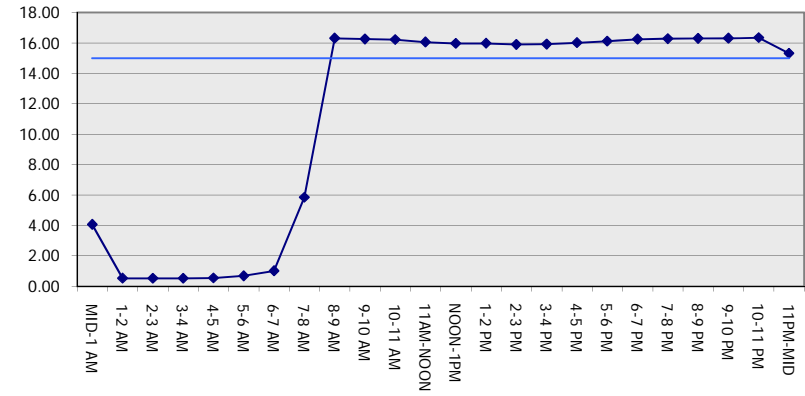
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY NORTHBOUND DIRECTION**

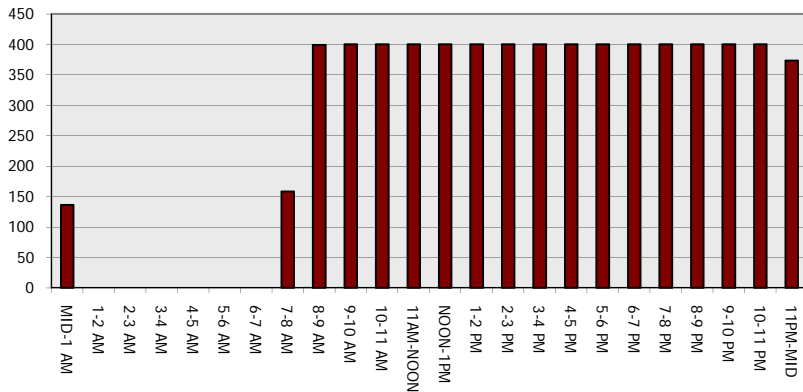
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

