

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	951	0.0	OFF	951	0	0.00	0	69.6	69.6	69.6	
1-2 AM	530	0.0	OFF	530	0	0.00	0	70.0	70.0	70.0	
2-3 AM	430	0.0	OFF	430	0	0.00	0	70.2	70.2	70.2	
3-4 AM	276	0.0	OFF	276	0	0.00	0	70.2	70.2	70.2	
4-5 AM	275	0.0	OFF	275	0	0.00	0	70.2	70.2	70.2	
5-6 AM	485	0.0	OFF	485	0	0.00	0	70.1	70.1	70.1	
6-7 AM	841	0.0	OFF	841	0	0.00	0	69.7	69.7	69.7	
7-8 AM	1161	0.0	OFF	1161	0	0.00	0	69.3	69.3	69.3	
8-9 AM	1674	0.0	OFF	1674	0	0.00	0	68.7	68.7	68.7	
9-10 AM	2304	0.0	1499	1814	490	10.28+	278	67.9	18.3	31.5	
10-11 AM	3085	0.0	1500	1500	1585	16.18+	400	66.9	12.9	32.2	
11AM-NOON	3571	0.0	1500	1500	2071	16.15+	400	66.3	12.9	32.2	
NOON-1PM	3865	0.0	1500	1500	2365	16.04+	400	64.5	12.9	32.2	
1-2 PM	3687	0.0	1500	1500	2187	16.11+	400	65.6	12.9	32.2	
2-3 PM	3585	0.0	1500	1500	2085	16.15+	400	66.3	12.9	32.2	
3-4 PM	3789	0.0	1500	1500	2289	16.07+	400	65.0	12.9	32.2	
4-5 PM	3727	0.0	1500	1500	2227	16.09+	400	65.4	12.9	32.2	
5-6 PM	3349	0.0	1500	1500	1849	16.16+	400	66.6	12.9	32.2	
6-7 PM	2946	0.0	1500	1500	1446	16.19+	400	67.1	12.9	32.2	
7-8 PM	2681	0.0	OFF	2681	0	0.17	14	67.4	64.5	64.5	
8-9 PM	2126	0.0	OFF	2126	0	0.00	0	68.1	68.1	68.1	
9-10 PM	1878	0.0	OFF	1878	0	0.00	0	68.4	68.4	68.4	
10-11 PM	1364	0.0	OFF	1364	0	0.00	0	69.1	69.1	69.1	
11PM-MID	873	0.0	OFF	873	0	0.00	0	69.7	69.7	69.7	

"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	0.0338
MAIN ROUTE WITH WORKS	0.0201
'DIVERSION'	0.0295
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$147,723
CONGESTED HOURS PER DAY*	10

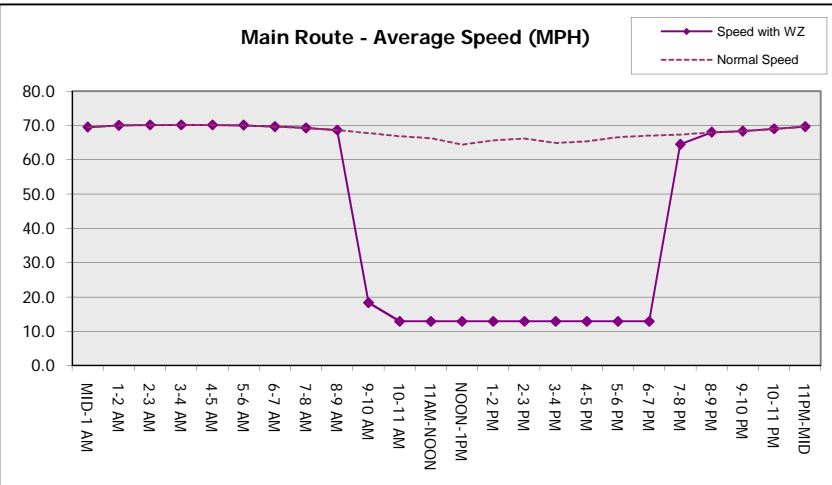
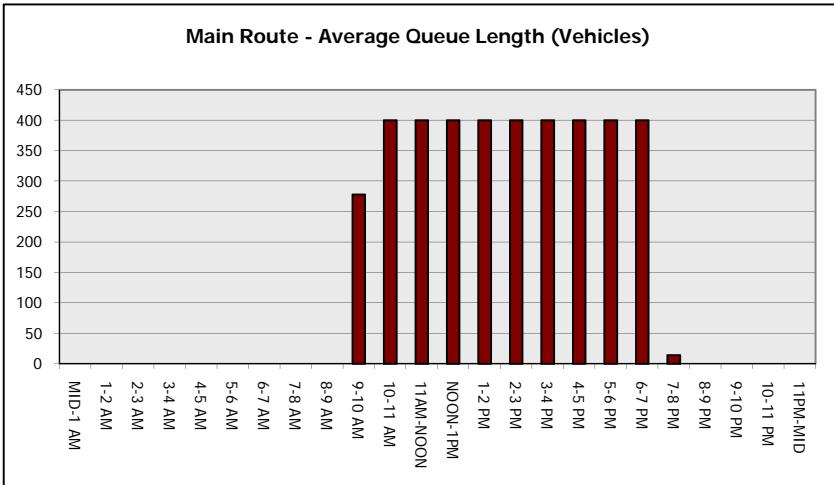
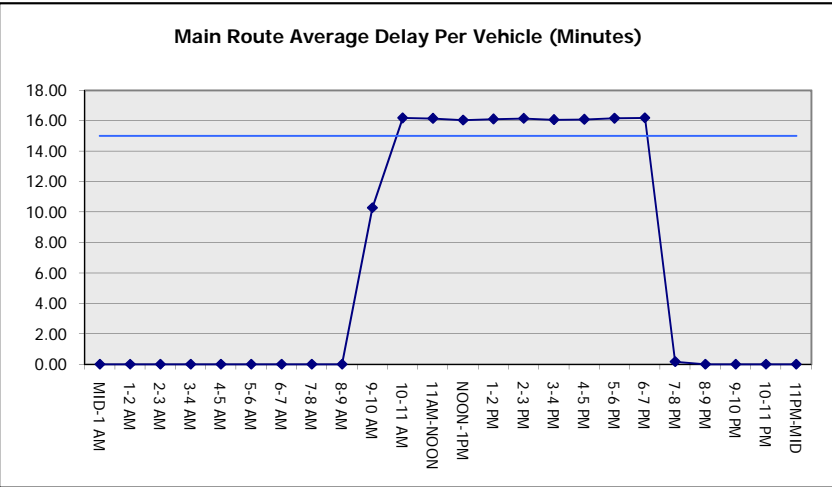
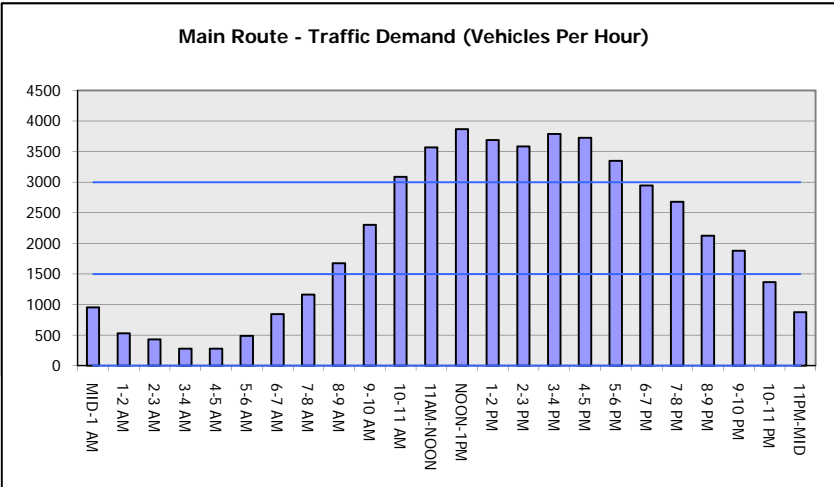
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	741	0.0	OFF	741	0	0.00	0	69.8	69.8	69.8
1-2 AM	451	0.0	OFF	451	0	0.00	0	70.2	70.2	70.2
2-3 AM	364	0.0	OFF	364	0	0.00	0	70.2	70.2	70.2
3-4 AM	299	0.0	OFF	299	0	0.00	0	70.2	70.2	70.2
4-5 AM	338	0.0	OFF	338	0	0.00	0	70.2	70.2	70.2
5-6 AM	605	0.0	OFF	605	0	0.00	0	70.0	70.0	70.0
6-7 AM	816	0.0	OFF	816	0	0.00	0	69.7	69.7	69.7
7-8 AM	1129	0.0	OFF	1129	0	0.00	0	69.3	69.3	69.3
8-9 AM	1504	0.0	OFF	1504	0	0.00	0	68.9	68.9	68.9
9-10 AM	2304	0.0	1499	1811	493	10.23+	277	67.9	18.4	31.5
10-11 AM	2962	0.0	1500	1500	1462	16.18+	399	67.1	12.9	32.4
11AM-NOON	3469	0.0	1500	1500	1969	16.14+	400	66.4	12.9	32.4
NOON-1PM	4065	0.0	1500	1500	2565	15.94+	400	63.1	12.9	32.4
1-2 PM	4114	0.0	1500	1500	2614	15.92+	399	62.7	12.9	32.4
2-3 PM	4104	0.0	1500	1500	2604	15.92+	399	62.8	12.9	32.4
3-4 PM	4127	0.0	1500	1500	2627	15.91+	400	62.7	12.9	32.4
4-5 PM	4223	0.0	1500	1500	2723	15.87+	400	62.0	12.9	32.4
5-6 PM	3846	0.0	1500	1500	2346	16.03+	400	64.6	12.9	32.4
6-7 PM	3499	0.0	1500	1500	1999	16.14+	399	66.4	12.9	32.4
7-8 PM	3038	0.0	OFF	3038	0	0.19	16	66.9	63.9	63.9
8-9 PM	2502	0.0	OFF	2502	0	0.00	0	67.6	67.6	67.6
9-10 PM	1878	0.0	OFF	1878	0	0.00	0	68.4	68.4	68.4
10-11 PM	1312	0.0	OFF	1312	0	0.00	0	69.1	69.1	69.1
11PM-MID	831	0.0	OFF	831	0	0.00	0	69.7	69.7	69.7

"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	0.0
(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	0
(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	0.0359
MAIN ROUTE WITH WORKS	0.0203
'DIVERSION'	0.0339

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$159,017
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

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SUNDAY NORTHBOUND DIRECTION

