

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	957	0.0	1500	957	0	0.80	7	69.6	57.2	41.8	
1-2 AM	632	0.0	1500	632	0	0.55	0	69.9	60.9	43.0	
2-3 AM	515	0.0	1500	515	0	0.53	0	70.1	61.2	43.5	
3-4 AM	440	0.0	1500	440	0	0.53	0	70.2	61.4	43.7	
4-5 AM	549	0.0	1500	549	0	0.54	0	70.0	61.1	43.3	
5-6 AM	969	0.0	1499	969	0	0.58	0	69.6	60.1	41.8	
6-7 AM	1616	0.0	1499	1616	0	2.11	36	68.7	44.0	31.4	
7-8 AM	2373	0.0	1500	1835	538	14.30+	359	67.8	14.2	31.4	
8-9 AM	2992	0.0	OFF	2992	0	0.42	38	67.0	60.4	60.4	
9-10 AM	3334	0.0	OFF	3334	0	0.00	0	66.6	66.6	66.6	
10-11 AM	3679	0.0	OFF	3679	0	0.00	0	65.7	65.7	65.7	
11AM-NOON	3890	0.0	OFF	3890	0	0.00	0	64.3	64.3	64.3	
NOON-1PM	3892	0.0	OFF	3892	0	0.00	0	64.3	64.3	64.3	
1-2 PM	3722	0.0	OFF	3722	0	0.00	0	65.5	65.5	65.5	
2-3 PM	3906	0.0	OFF	3906	0	0.00	0	64.1	64.1	64.1	
3-4 PM	3826	0.0	OFF	3826	0	0.00	0	64.7	64.7	64.7	
4-5 PM	3690	0.0	OFF	3690	0	0.00	0	65.6	65.6	65.6	
5-6 PM	3268	0.0	OFF	3268	0	0.00	0	66.7	66.7	66.7	
6-7 PM	2879	0.0	1499	1550	1329	15.53+	387	67.1	13.3	36.5	
7-8 PM	2300	0.0	1499	1864	436	13.01+	330	67.9	15.3	31.5	
8-9 PM	2046	0.0	1499	1500	546	16.34+	399	68.2	12.8	30.8	
9-10 PM	1997	0.0	1500	1500	497	16.34+	400	68.2	12.8	30.8	
10-11 PM	1619	0.0	1500	1477	142	16.27+	397	68.7	12.9	30.8	
11PM-MID	1195	0.0	1499	1195	0	10.07	259	69.2	18.7	32.5	

"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	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	0.0385
MAIN ROUTE WITH WORKS	0.0350
'DIVERSION'	0.0055
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$54,829
CONGESTED HOURS PER DAY*	6

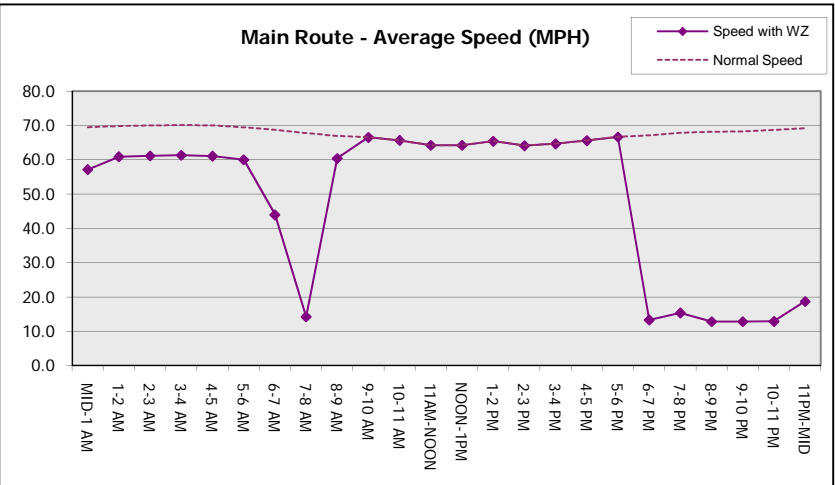
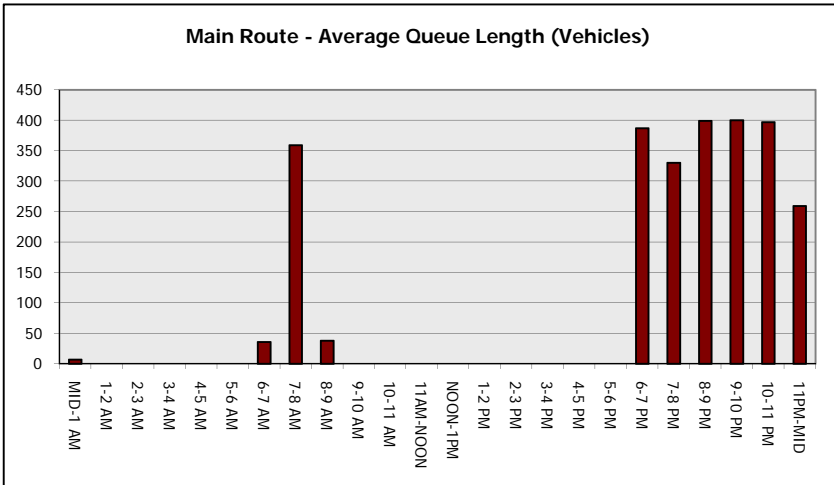
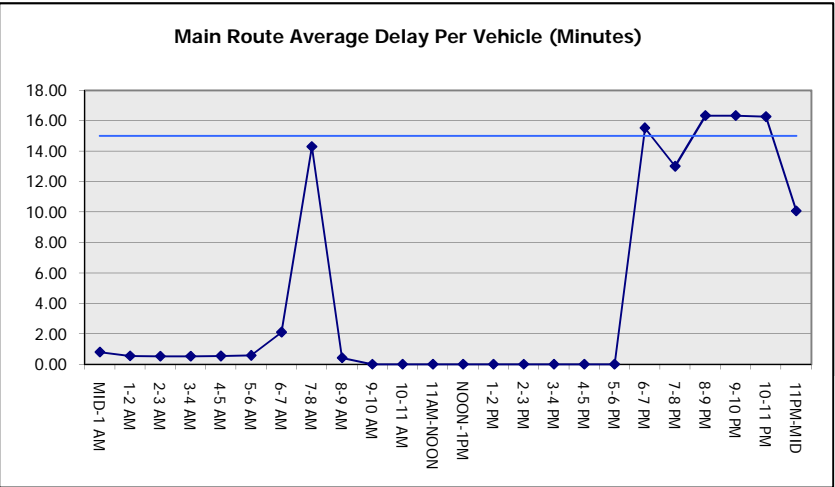
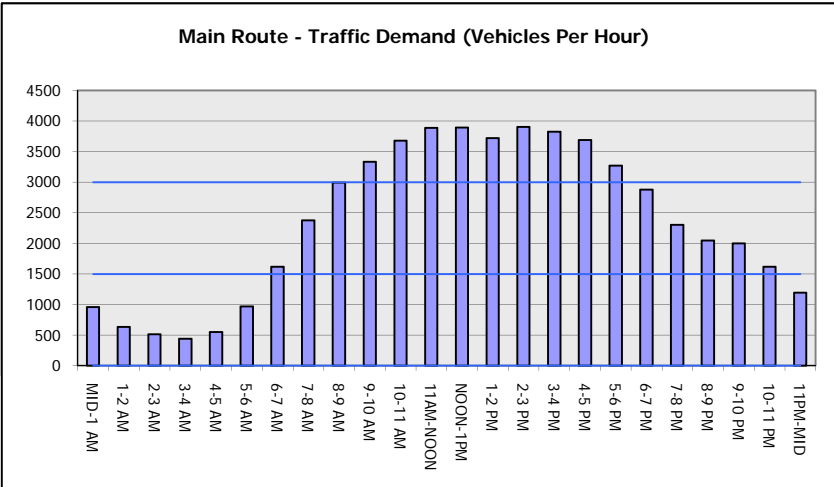
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION



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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	787	0.0	1500	787	0	0.72	5	69.7	58.4	42.4
1-2 AM	483	0.0	1500	483	0	0.53	0	70.1	61.3	43.6
2-3 AM	437	0.0	1500	437	0	0.53	0	70.2	61.4	43.7
3-4 AM	394	0.0	1500	394	0	0.52	0	70.2	61.5	43.9
4-5 AM	591	0.0	1500	591	0	0.54	0	70.0	61.0	43.2
5-6 AM	1166	0.0	1499	1166	0	0.69	0	69.3	58.4	38.9
6-7 AM	1424	0.0	1499	1424	0	1.04	1	69.0	54.0	32.7
7-8 AM	1873	0.0	1500	1873	0	5.99	160	68.4	26.5	30.8
8-9 AM	2447	0.0	OFF	2447	0	0.23	20	67.7	63.8	63.8
9-10 AM	2907	0.0	OFF	2907	0	0.00	0	67.1	67.1	67.1
10-11 AM	3318	0.0	OFF	3318	0	0.00	0	66.6	66.6	66.6
11AM-NOON	3593	0.0	OFF	3593	0	0.00	0	66.3	66.3	66.3
NOON-1PM	3856	0.0	OFF	3856	0	0.00	0	64.5	64.5	64.5
1-2 PM	3757	0.0	OFF	3757	0	0.00	0	65.2	65.2	65.2
2-3 PM	3875	0.0	OFF	3875	0	0.00	0	64.4	64.4	64.4
3-4 PM	3873	0.0	OFF	3873	0	0.00	0	64.4	64.4	64.4
4-5 PM	3854	0.0	OFF	3854	0	0.00	0	64.5	64.5	64.5
5-6 PM	3668	0.0	OFF	3668	0	0.00	0	65.8	65.8	65.8
6-7 PM	3192	0.0	1499	1550	1642	16.46+	412	66.8	12.7	36.6
7-8 PM	2589	0.0	1499	1671	918	13.78+	359	67.5	14.7	35.5
8-9 PM	2356	0.0	1499	1725	631	15.55+	383	67.8	13.4	30.8
9-10 PM	2226	0.0	1500	1500	726	16.33+	400	67.9	12.8	30.8
10-11 PM	1642	0.0	1499	1448	194	16.15+	394	68.7	13.0	30.8
11PM-MID	1191	0.0	1499	1191	0	10.29	266	69.2	18.4	32.8

"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	0.0380
MAIN ROUTE WITH WORKS	0.0341
'DIVERSION'	0.0065

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$53,701
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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