

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

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	631	0.0	1500	631	0	0.55	0	69.9	60.9	43.0	
1-2 AM	396	0.0	1500	396	0	0.52	0	70.2	61.5	43.9	
2-3 AM	366	0.0	1500	366	0	0.52	0	70.2	61.5	44.0	
3-4 AM	455	0.0	1500	455	0	0.53	0	70.2	61.4	43.7	
4-5 AM	843	0.0	1500	843	0	0.57	0	69.7	60.4	42.2	
5-6 AM	2338	0.0	OFF	2338	0	0.00	0	67.8	67.8	67.8	
6-7 AM	4192	0.0	OFF	4192	0	0.00	0	62.2	62.2	62.2	
7-8 AM	4389	0.0	OFF	4389	0	0.00	0	60.9	60.9	60.9	
8-9 AM	3809	0.0	OFF	3809	0	0.00	0	64.8	64.8	64.8	
9-10 AM	3292	0.0	OFF	3292	0	0.00	0	66.6	66.6	66.6	
10-11 AM	3336	0.0	OFF	3336	0	0.00	0	66.6	66.6	66.6	
11AM-NOON	3368	0.0	OFF	3368	0	0.00	0	66.6	66.6	66.6	
NOON-1PM	3489	0.0	OFF	3489	0	0.00	0	66.4	66.4	66.4	
1-2 PM	3698	0.0	OFF	3698	0	0.00	0	65.6	65.6	65.6	
2-3 PM	4457	0.0	OFF	4457	0	0.00	0	60.4	60.4	60.4	
3-4 PM	5109	0.0	OFF	5109	0	0.00	0	56.0	56.0	56.0	
4-5 PM	5091	0.0	OFF	5091	0	0.00	0	56.1	56.1	56.1	
5-6 PM	5002	0.0	OFF	5002	0	0.00	0	56.7	56.7	56.7	
6-7 PM	3651	0.0	OFF	3651	0	0.00	0	65.9	65.9	65.9	
7-8 PM	2668	0.0	1499	1679	989	14.04+	355	67.4	14.4	35.7	
8-9 PM	2239	0.0	1499	1697	542	14.71+	368	67.9	13.9	32.4	
9-10 PM	2124	0.0	1499	1500	624	16.33+	399	68.1	12.8	30.8	
10-11 PM	1547	0.0	1500	1454	93	15.44+	376	68.8	13.4	30.8	
11PM-MID	993	0.0	1499	993	0	3.61	130	69.5	35.2	37.6	

"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	0.0462
MAIN ROUTE WITH WORKS	0.0440
'DIVERSION'	0.0036
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$30,468
CONGESTED HOURS PER DAY*	4

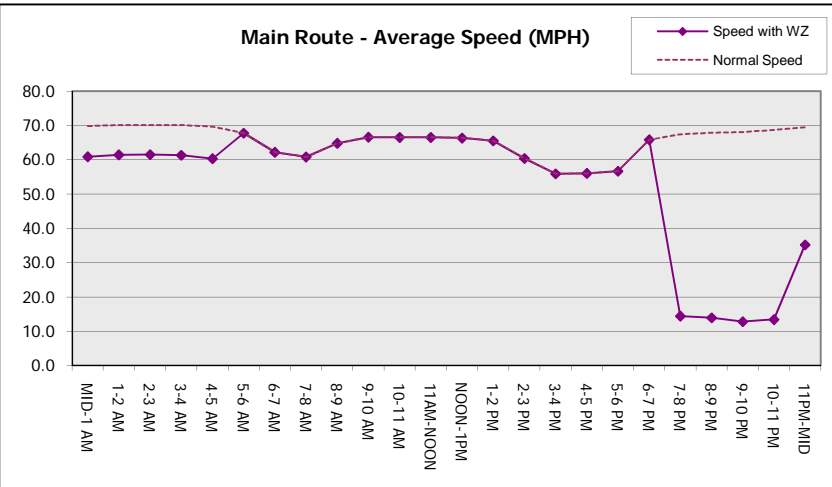
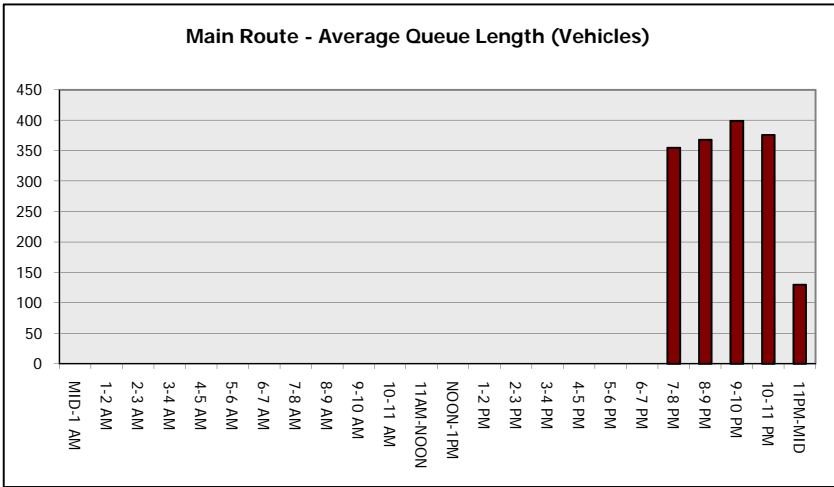
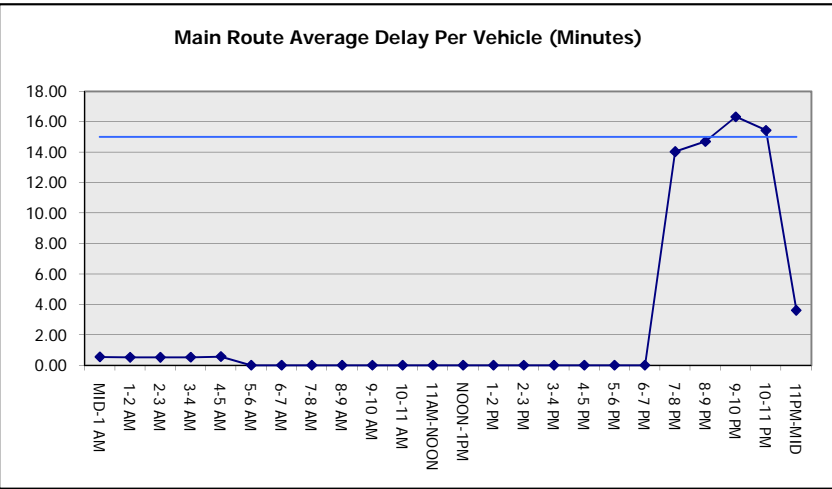
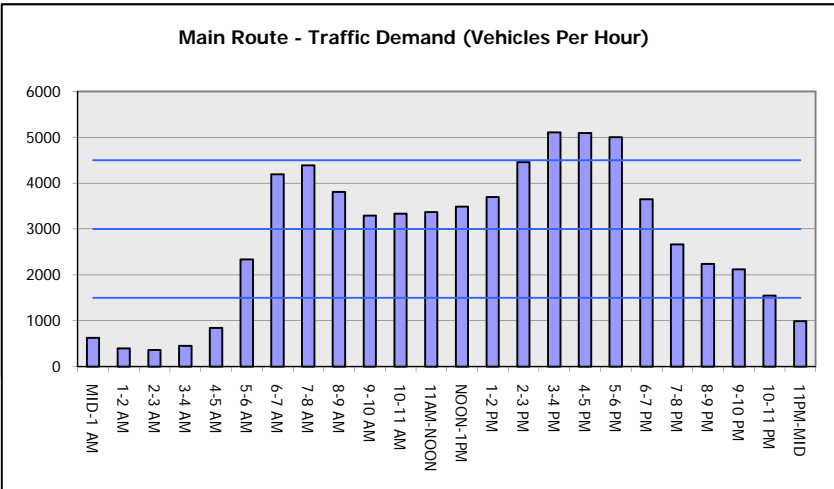
*Delays Exceeding User-Specified Maximum

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NIGHTTIME 2 LANE CLOSURE
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION



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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	519	0.0	1500	519	0	0.53	0	70.1	61.2	43.4
1-2 AM	348	0.0	1500	348	0	0.51	0	70.2	61.5	44.1
2-3 AM	335	0.0	1500	335	0	0.51	0	70.2	61.5	44.2
3-4 AM	476	0.0	1500	476	0	0.53	0	70.1	61.3	43.6
4-5 AM	996	0.0	1499	996	0	0.67	0	69.5	58.9	39.6
5-6 AM	2602	0.0	OFF	2602	0	0.00	0	67.5	67.5	67.5
6-7 AM	4742	0.0	OFF	4742	0	0.00	0	58.4	58.4	58.4
7-8 AM	5378	0.0	OFF	5378	0	0.00	0	54.1	54.1	54.1
8-9 AM	4293	0.0	OFF	4293	0	0.00	0	61.5	61.5	61.5
9-10 AM	3395	0.0	OFF	3395	0	0.00	0	66.5	66.5	66.5
10-11 AM	3217	0.0	OFF	3217	0	0.00	0	66.8	66.8	66.8
11AM-NOON	3371	0.0	OFF	3371	0	0.00	0	66.6	66.6	66.6
NOON-1PM	3557	0.0	OFF	3557	0	0.00	0	66.3	66.3	66.3
1-2 PM	3748	0.0	OFF	3748	0	0.00	0	65.3	65.3	65.3
2-3 PM	4305	0.0	OFF	4305	0	0.00	0	61.4	61.4	61.4
3-4 PM	4686	0.0	OFF	4686	0	0.00	0	58.9	58.9	58.9
4-5 PM	5020	0.0	OFF	5020	0	0.00	0	56.6	56.6	56.6
5-6 PM	5241	0.0	OFF	5241	0	0.00	0	55.1	55.1	55.1
6-7 PM	3891	0.0	OFF	3891	0	0.00	0	64.3	64.3	64.3
7-8 PM	2902	0.0	1499	1532	1369	15.98+	399	67.1	13.0	36.6
8-9 PM	2588	0.0	1499	1734	854	13.51+	347	67.5	14.9	35.2
9-10 PM	2199	0.0	1499	1620	578	15.88+	389	68.0	13.1	30.8
10-11 PM	1531	0.0	1500	1443	88	15.53+	378	68.8	13.4	30.8
11PM-MID	1034	0.0	1499	1034	0	4.09	143	69.4	33.0	36.8

"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	0.0482
MAIN ROUTE WITH WORKS	0.0455
'DIVERSION'	0.0046

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$33,149
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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MON-THUR NORTHBOUND DIRECTION

