

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) OFF-PEAK DAY 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	OFF	631	0	0.00	0	69.9	69.9	69.9
1-2 AM	396	0.0	OFF	396	0	0.00	0	70.2	70.2	70.2
2-3 AM	366	0.0	OFF	366	0	0.00	0	70.2	70.2	70.2
3-4 AM	455	0.0	OFF	455	0	0.00	0	70.2	70.2	70.2
4-5 AM	843	0.0	OFF	843	0	0.00	0	69.7	69.7	69.7
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	2999	3336	0	3.40	165	66.6	35.5	37.3
11AM-NOON	3368	0.0	3000	3368	0	9.82	515	66.6	18.8	37.3
NOON-1PM	3489	0.0	2999	3088	400	15.04+	790	66.4	13.7	37.3
1-2 PM	3698	0.0	3000	3000	698	15.18+	801	65.6	13.5	37.3
2-3 PM	4457	0.0	3000	3001	1457	14.85+	801	60.4	13.5	37.3
3-4 PM	5109	0.0	OFF	5109	0	4.03	353	56.0	29.9	29.9
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	OFF	2668	0	0.00	0	67.4	67.4	67.4
8-9 PM	2239	0.0	OFF	2239	0	0.00	0	67.9	67.9	67.9
9-10 PM	2124	0.0	OFF	2124	0	0.00	0	68.1	68.1	68.1
10-11 PM	1547	0.0	OFF	1547	0	0.00	0	68.8	68.8	68.8
11PM-MID	993	0.0	OFF	993	0	0.00	0	69.5	69.5	69.5

"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 (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	0.0434
'DIVERSION'	0.0040
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$47,785
CONGESTED HOURS PER DAY*	3

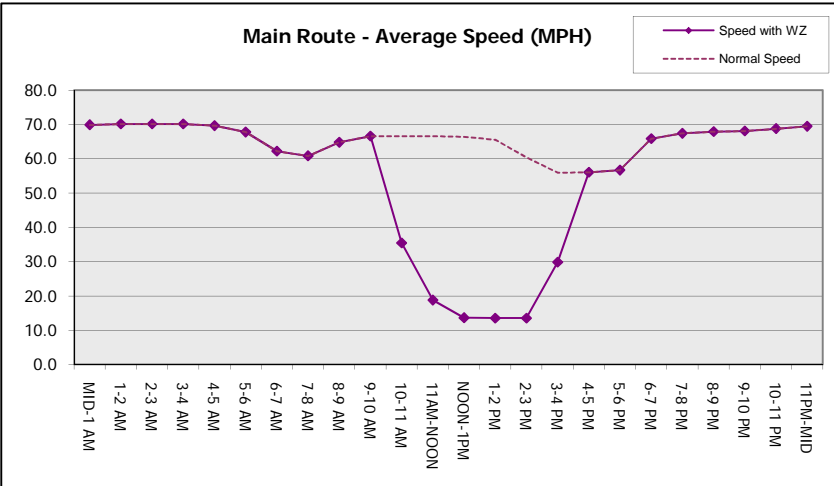
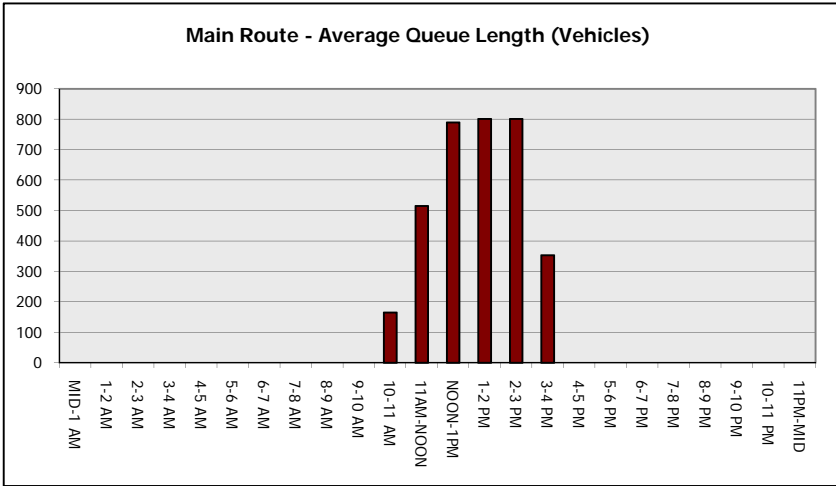
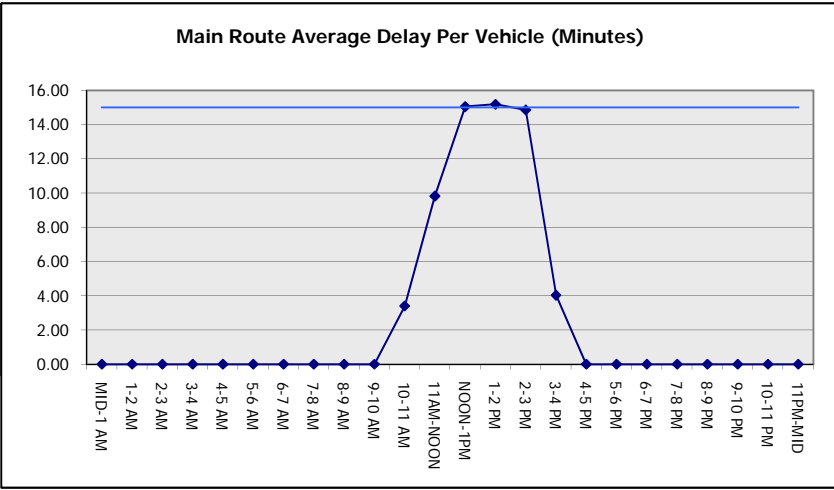
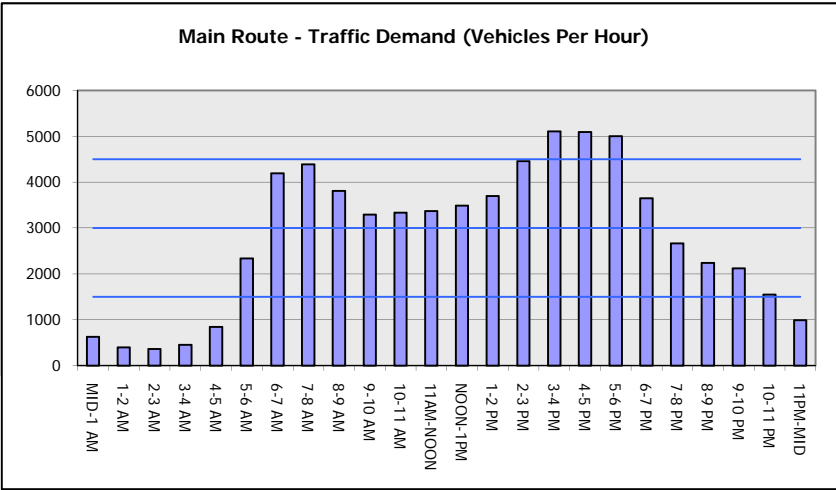
*Delays Exceeding User-Specified Maximum

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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	OFF	519	0	0.00	0	70.1	70.1	70.1
1-2 AM	348	0.0	OFF	348	0	0.00	0	70.2	70.2	70.2
2-3 AM	335	0.0	OFF	335	0	0.00	0	70.2	70.2	70.2
3-4 AM	476	0.0	OFF	476	0	0.00	0	70.1	70.1	70.1
4-5 AM	996	0.0	OFF	996	0	0.00	0	69.5	69.5	69.5
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	2999	3217	0	2.55	109	66.8	40.2	37.3
11AM-NOON	3371	0.0	3000	3371	0	7.54	391	66.6	22.6	37.3
NOON-1PM	3557	0.0	3000	3255	302	14.38+	758	66.3	14.2	37.3
1-2 PM	3748	0.0	3000	3000	748	15.16+	801	65.3	13.5	37.3
2-3 PM	4305	0.0	3000	2998	1307	14.92+	801	61.4	13.5	37.3
3-4 PM	4686	0.0	OFF	4686	0	3.16	268	58.9	34.2	34.2
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	OFF	2902	0	0.00	0	67.1	67.1	67.1
8-9 PM	2588	0.0	OFF	2588	0	0.00	0	67.5	67.5	67.5
9-10 PM	2199	0.0	OFF	2199	0	0.00	0	68.0	68.0	68.0
10-11 PM	1531	0.0	OFF	1531	0	0.00	0	68.8	68.8	68.8
11PM-MID	1034	0.0	OFF	1034	0	0.00	0	69.4	69.4	69.4

"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'	0.0037

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$43,964
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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