

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) 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	3000	631	0	0.36	0	69.9	63.8	49.7
1-2 AM	396	0.0	3000	396	0	0.36	0	70.2	63.9	49.7
2-3 AM	366	0.0	3000	366	0	0.36	0	70.2	63.9	49.7
3-4 AM	455	0.0	3000	455	0	0.36	0	70.2	63.9	49.7
4-5 AM	843	0.0	3000	843	0	0.35	0	69.7	63.6	49.7
5-6 AM	2338	0.0	2999	2338	0	0.45	0	67.8	60.7	45.5
6-7 AM	4192	0.0	2999	3909	283	7.67+	483	62.2	21.9	37.3
7-8 AM	4389	0.0	3000	2997	1392	14.88+	801	60.9	13.5	37.3
8-9 AM	3809	0.0	2999	2949	860	15.05+	796	64.8	13.6	37.3
9-10 AM	3292	0.0	2999	2968	324	15.18+	797	66.6	13.5	37.3
10-11 AM	3336	0.0	3000	3000	336	15.24+	801	66.6	13.5	37.3
11AM-NOON	3368	0.0	3000	3000	368	15.24+	801	66.6	13.5	37.3
NOON-1PM	3489	0.0	3000	3000	489	15.23+	801	66.4	13.5	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	2999	1459	14.85+	801	60.4	13.5	37.3
3-4 PM	5109	0.0	3000	3000	2109	14.52+	801	56.0	13.5	37.3
4-5 PM	5091	0.0	3000	3000	2091	14.53+	801	56.1	13.5	37.3
5-6 PM	5002	0.0	3000	3000	2002	14.58+	801	56.7	13.5	37.3
6-7 PM	3651	0.0	3000	3000	651	15.20+	801	65.9	13.5	37.3
7-8 PM	2668	0.0	2999	2668	0	13.25+	699	67.4	15.1	37.3
8-9 PM	2239	0.0	2999	2239	0	2.37	170	67.9	41.8	45.9
9-10 PM	2124	0.0	3000	2124	0	0.33	0	68.1	62.6	49.7
10-11 PM	1547	0.0	3000	1547	0	0.34	0	68.8	63.0	49.7
11PM-MID	993	0.0	3000	993	0	0.35	0	69.5	63.5	49.7

+ 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	0.0336
'DIVERSION'	0.0207
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$176,368
CONGESTED HOURS PER DAY*	14

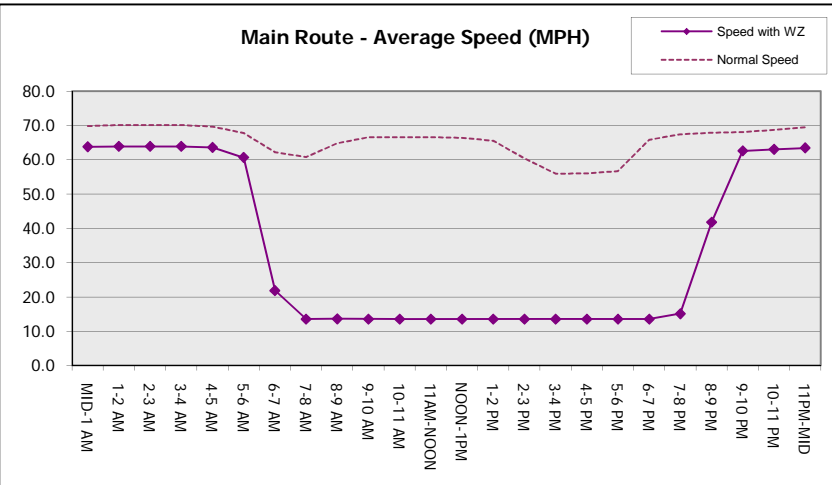
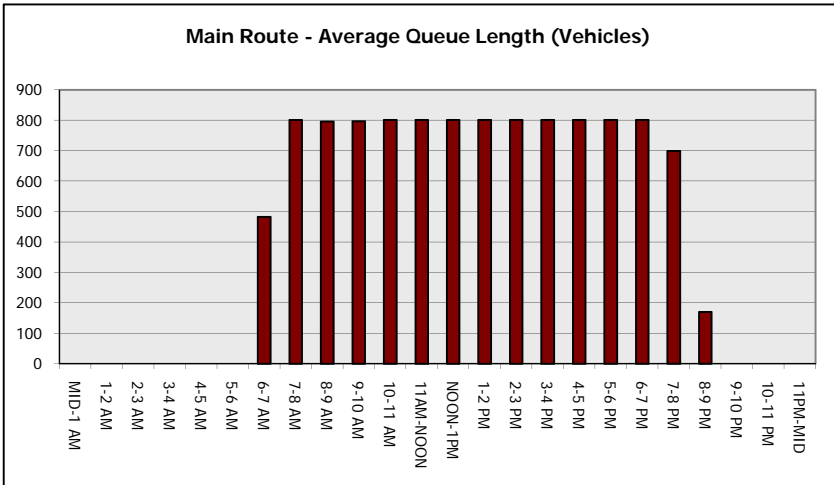
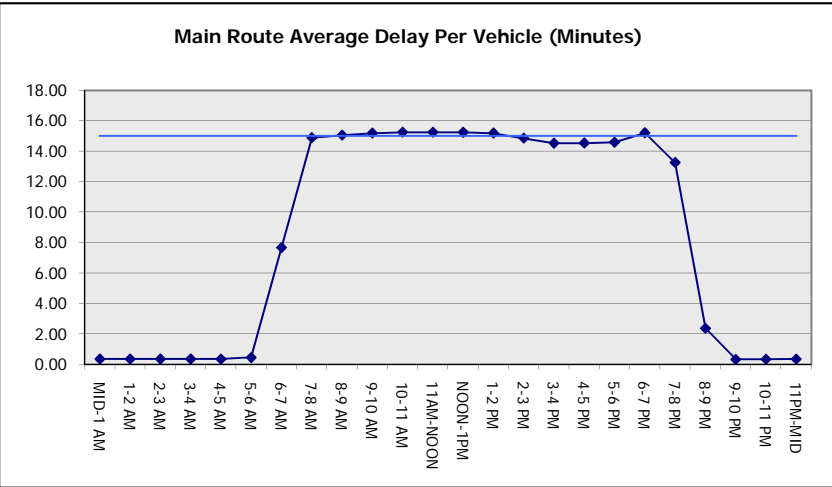
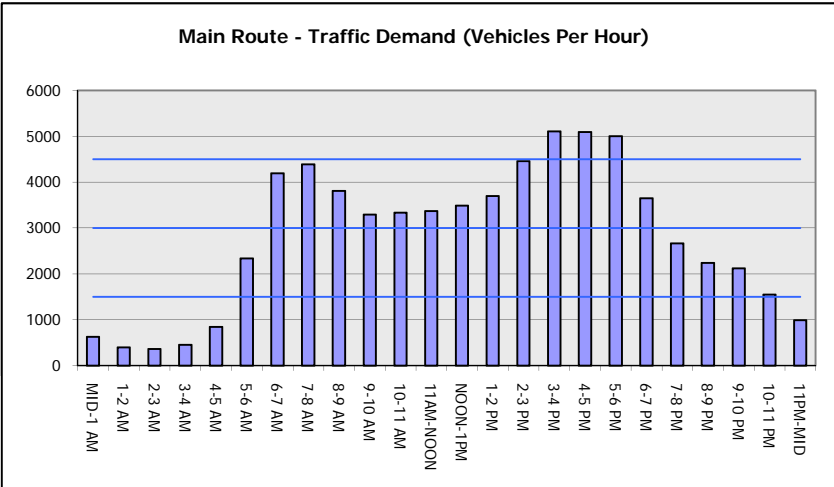
*Delays Exceeding User-Specified Maximum

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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	3000	519	0	0.36	0	70.1	63.8	49.7
1-2 AM	348	0.0	3000	348	0	0.36	0	70.2	63.9	49.7
2-3 AM	335	0.0	3000	335	0	0.36	0	70.2	63.9	49.7
3-4 AM	476	0.0	3000	476	0	0.36	0	70.1	63.9	49.7
4-5 AM	996	0.0	3000	996	0	0.35	0	69.5	63.5	49.7
5-6 AM	2602	0.0	2999	2602	0	0.66	8	67.5	57.6	43.5
6-7 AM	4742	0.0	3000	3698	1044	9.93+	592	58.4	18.0	37.3
7-8 AM	5378	0.0	3000	3000	2378	14.36+	801	54.1	13.5	37.3
8-9 AM	4293	0.0	3000	3003	1290	14.93+	801	61.5	13.5	37.3
9-10 AM	3395	0.0	3000	3066	329	15.09+	793	66.5	13.6	37.3
10-11 AM	3217	0.0	3000	3000	217	15.25+	801	66.8	13.5	37.3
11AM-NOON	3371	0.0	3000	3000	371	15.24+	801	66.6	13.5	37.3
NOON-1PM	3557	0.0	3000	3000	557	15.23+	801	66.3	13.5	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	3000	1305	14.92+	801	61.4	13.5	37.3
3-4 PM	4686	0.0	3000	3000	1686	14.74+	801	58.9	13.5	37.3
4-5 PM	5020	0.0	3000	3000	2020	14.57+	801	56.6	13.5	37.3
5-6 PM	5241	0.0	3000	3000	2241	14.44+	801	55.1	13.5	37.3
6-7 PM	3891	0.0	3000	3000	891	15.10+	801	64.3	13.5	37.3
7-8 PM	2902	0.0	3000	2870	32	14.66+	768	67.1	14.0	37.3
8-9 PM	2588	0.0	2999	2588	0	9.23	486	67.5	19.7	37.6
9-10 PM	2199	0.0	3000	2199	0	1.00	50	68.0	53.8	48.2
10-11 PM	1531	0.0	3000	1531	0	0.34	0	68.8	63.1	49.7
11PM-MID	1034	0.0	3000	1034	0	0.35	0	69.4	63.5	49.7

+ 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	0.0342
'DIVERSION'	0.0239

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$189,743
CONGESTED HOURS PER DAY*	14

*Delays Exceeding User-Specified Maximum

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