

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	1141	0.0	3000	1141	0	0.35	0	69.3	63.4	49.7
1-2 AM	689	0.0	3000	689	0	0.36	0	69.9	63.7	49.7
2-3 AM	570	0.0	3000	570	0	0.36	0	70.0	63.8	49.7
3-4 AM	478	0.0	3000	478	0	0.36	0	70.1	63.9	49.7
4-5 AM	546	0.0	3000	546	0	0.36	0	70.0	63.8	49.7
5-6 AM	1018	0.0	3000	1018	0	0.35	0	69.5	63.5	49.7
6-7 AM	1696	0.0	3000	1696	0	0.34	0	68.6	62.9	49.7
7-8 AM	2388	0.0	2999	2388	0	0.39	0	67.8	61.5	47.4
8-9 AM	3123	0.0	2999	3123	0	1.26	34	66.9	50.4	37.4
9-10 AM	3585	0.0	3000	3585	0	7.25	398	66.3	23.2	37.3
10-11 AM	4099	0.0	2999	3003	1096	15.02+	801	62.8	13.5	37.3
11AM-NOON	4312	0.0	3000	3003	1309	14.92+	801	61.4	13.5	37.3
NOON-1PM	4498	0.0	3000	3003	1496	14.83+	801	60.1	13.5	37.3
1-2 PM	4473	0.0	3000	3003	1470	14.84+	801	60.3	13.5	37.3
2-3 PM	4270	0.0	3000	3003	1267	14.94+	801	61.7	13.5	37.3
3-4 PM	4207	0.0	3000	3003	1204	14.97+	801	62.1	13.5	37.3
4-5 PM	3999	0.0	3000	3002	997	15.06+	801	63.5	13.5	37.3
5-6 PM	3585	0.0	3000	3004	582	15.22+	800	66.3	13.5	37.3
6-7 PM	3017	0.0	3000	3012	6	14.96+	784	67.0	13.7	37.3
7-8 PM	2541	0.0	2999	2541	0	10.38	553	67.6	18.2	37.7
8-9 PM	2182	0.0	3000	2182	0	1.08	59	68.0	52.9	48.6
9-10 PM	1983	0.0	3000	1983	0	0.33	0	68.2	62.7	49.7
10-11 PM	1678	0.0	3000	1678	0	0.34	0	68.6	63.0	49.7
11PM-MID	1343	0.0	3000	1343	0	0.35	0	69.1	63.2	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	0.0420
MAIN ROUTE WITH WORKS	0.0321
'DIVERSION'	0.0149
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$170,642
CONGESTED HOURS PER DAY*	9

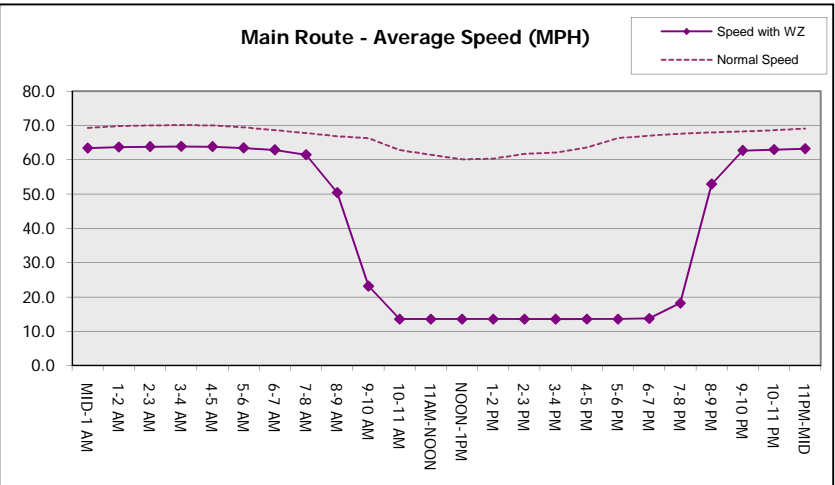
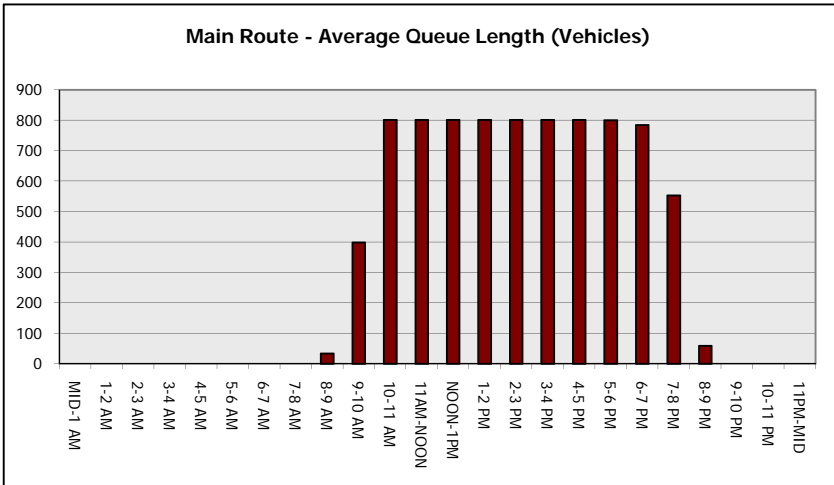
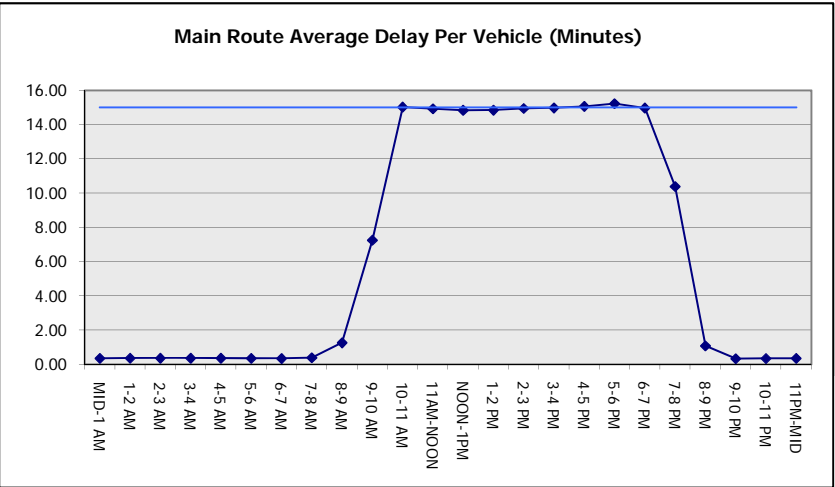
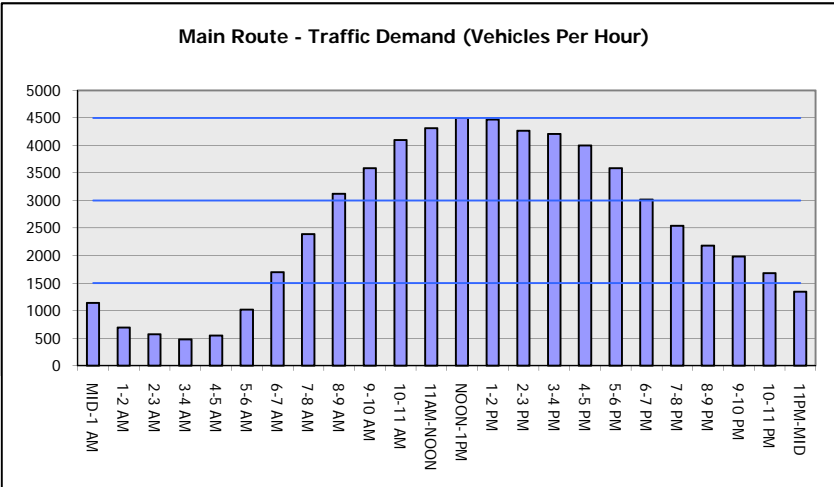
*Delays Exceeding User-Specified Maximum

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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	1075	0.0	3000	1075	0	0.35	0	69.4	63.4	49.7
1-2 AM	604	0.0	3000	604	0	0.36	0	70.0	63.8	49.7
2-3 AM	518	0.0	3000	518	0	0.36	0	70.1	63.9	49.7
3-4 AM	456	0.0	3000	456	0	0.36	0	70.2	63.9	49.7
4-5 AM	686	0.0	3000	686	0	0.36	0	69.9	63.7	49.7
5-6 AM	1174	0.0	3000	1174	0	0.35	0	69.3	63.3	49.7
6-7 AM	1420	0.0	3000	1420	0	0.34	0	69.0	63.2	49.7
7-8 AM	1878	0.0	3000	1878	0	0.34	0	68.4	62.8	49.7
8-9 AM	2523	0.0	2999	2523	0	0.42	0	67.6	60.9	46.2
9-10 AM	3190	0.0	2999	3190	0	1.68	60	66.8	46.5	37.3
10-11 AM	3635	0.0	3000	3635	0	8.71	482	66.0	20.4	37.3
11AM-NOON	3996	0.0	2999	3000	997	15.06+	801	63.5	13.5	37.3
NOON-1PM	4210	0.0	2999	2999	1212	14.96+	801	62.1	13.5	37.3
1-2 PM	4180	0.0	3000	2999	1182	14.98+	801	62.3	13.5	37.3
2-3 PM	4352	0.0	2999	2998	1354	14.90+	801	61.1	13.5	37.3
3-4 PM	4323	0.0	3000	2998	1325	14.91+	801	61.3	13.5	37.3
4-5 PM	4102	0.0	3000	2999	1103	15.01+	801	62.8	13.5	37.3
5-6 PM	3857	0.0	3000	3000	857	15.12+	801	64.5	13.5	37.3
6-7 PM	3345	0.0	2999	3000	345	15.24+	801	66.6	13.5	37.3
7-8 PM	2894	0.0	2999	2865	29	14.54+	762	67.1	14.0	37.3
8-9 PM	2626	0.0	2999	2626	0	9.73	509	67.4	19.0	37.3
9-10 PM	2461	0.0	2999	2461	0	1.77	102	67.7	46.3	44.8
10-11 PM	1948	0.0	3000	1948	0	0.34	0	68.3	62.7	49.7
11PM-MID	1430	0.0	3000	1430	0	0.34	0	68.9	63.2	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	0.0417
MAIN ROUTE WITH WORKS	0.0324
'DIVERSION'	0.0133

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$168,053
CONGESTED HOURS PER DAY*	9

*Delays Exceeding User-Specified Maximum

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