

IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	833	0.0	1500	833	0	1.68	50	69.7	47.9	41.7	
1-2 AM	519	0.0	1500	519	0	0.53	0	70.1	61.2	43.4	
2-3 AM	492	0.0	1500	492	0	0.53	0	70.1	61.2	43.5	
3-4 AM	572	0.0	1500	572	0	0.54	0	70.0	61.0	43.2	
4-5 AM	942	0.0	1499	942	0	0.61	0	69.6	59.7	41.0	
5-6 AM	2414	0.0	1499	1827	587	9.12+	256	67.8	19.9	30.8	
6-7 AM	4241	0.0	1499	1500	2741	15.92+	399	61.9	12.9	31.3	
7-8 AM	4691	0.0	1500	1500	3191	15.70+	400	58.8	12.9	31.3	
8-9 AM	3997	0.0	1500	1500	2497	16.03+	400	63.5	12.9	31.3	
9-10 AM	3703	0.0	1500	1500	2203	16.16+	400	65.6	12.9	31.3	
10-11 AM	3822	0.0	1499	1500	2322	16.11+	400	64.8	12.9	31.3	
11AM-NOON	3988	0.0	1500	1500	2488	16.03+	400	63.6	12.9	31.3	
NOON-1PM	4130	0.0	1499	1500	2630	15.97+	400	62.7	12.9	31.3	
1-2 PM	4414	0.0	1500	1500	2914	15.84+	400	60.7	12.9	31.3	
2-3 PM	5032	0.0	1500	1500	3532	15.52+	400	56.5	12.9	31.3	
3-4 PM	5200	0.0	1500	1500	3700	15.43+	400	55.3	12.9	31.3	
4-5 PM	5185	0.0	1500	1500	3685	15.44+	400	55.5	12.9	31.3	
5-6 PM	5079	0.0	1500	1500	3579	15.50+	400	56.1	12.9	31.3	
6-7 PM	4177	0.0	1500	1500	2677	15.95+	400	62.3	12.9	31.3	
7-8 PM	3175	0.0	1500	1500	1675	16.23+	400	66.8	12.9	31.3	
8-9 PM	2580	0.0	1500	1500	1080	16.27+	400	67.5	12.9	31.3	
9-10 PM	2523	0.0	1499	1500	1023	16.27+	400	67.6	12.9	31.3	
10-11 PM	1971	0.0	1500	1562	410	16.07+	393	68.3	13.0	30.8	
11PM-MID	1350	0.0	1500	1350	0	14.26+	349	69.1	14.3	30.8	

+ 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

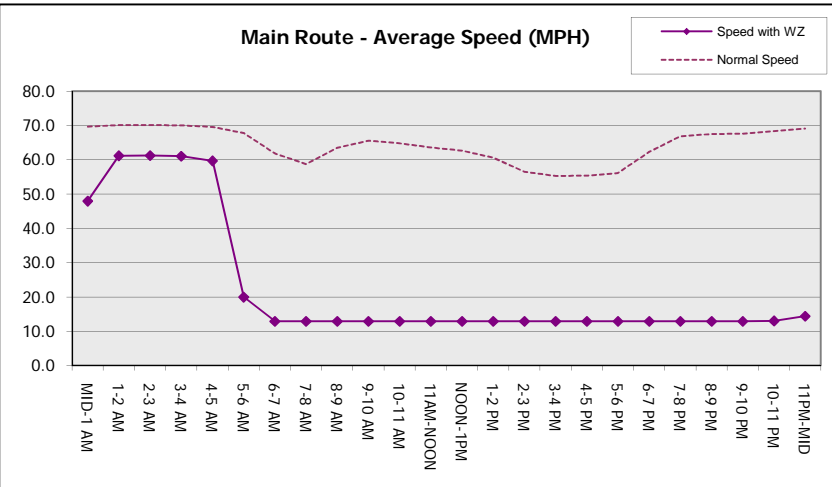
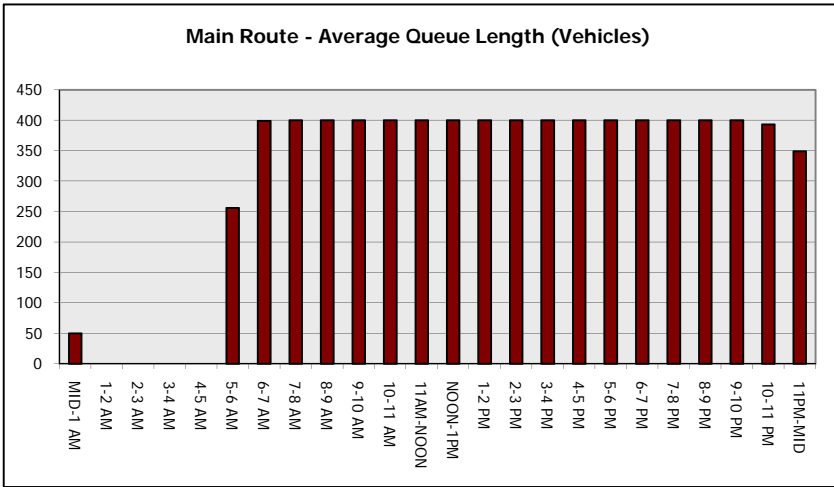
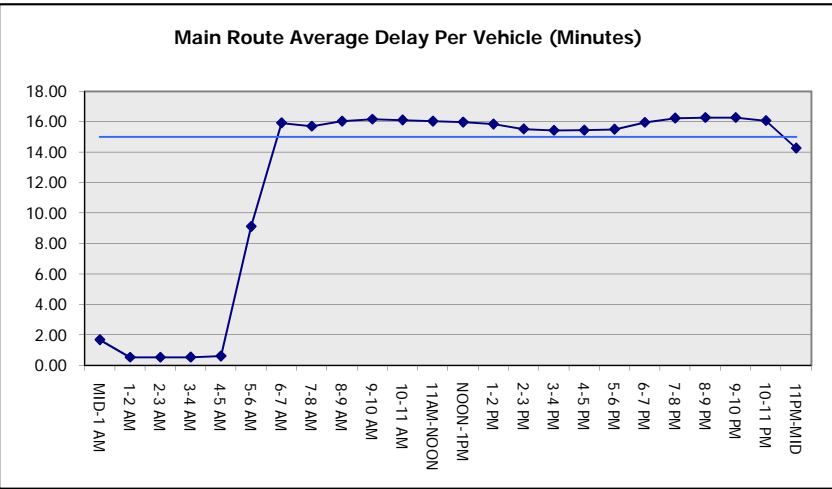
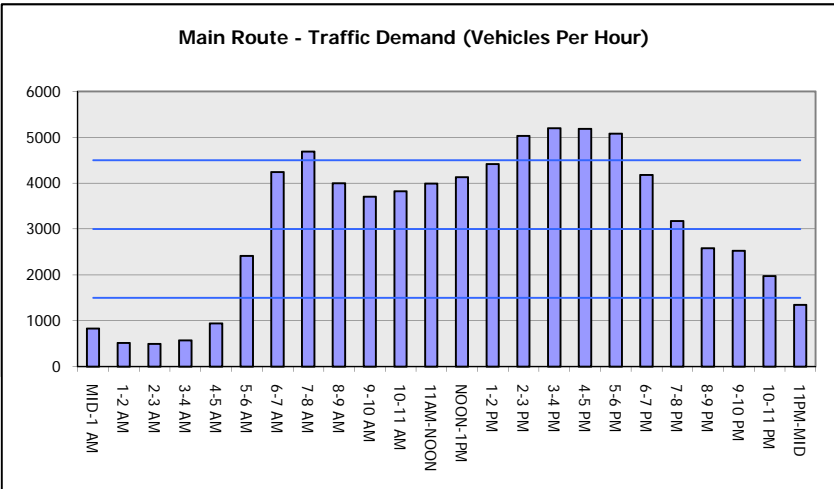
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0513
MAIN ROUTE WITH WORKS	0.0198
'DIVERSION'	0.0680
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$248,450
CONGESTED HOURS PER DAY*	19

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	623	0.0	1500	623	0	1.49	48	70.0	49.8	42.8
1-2 AM	421	0.0	1500	421	0	0.52	0	70.2	61.4	43.8
2-3 AM	431	0.0	1500	431	0	0.53	0	70.2	61.4	43.8
3-4 AM	517	0.0	1500	517	0	0.53	0	70.1	61.2	43.5
4-5 AM	1044	0.0	1499	1044	0	0.69	0	69.4	58.6	39.1
5-6 AM	2510	0.0	1499	1794	716	9.92+	273	67.6	18.8	32.2
6-7 AM	4415	0.0	1500	1500	2915	15.72+	400	60.7	12.9	33.5
7-8 AM	5160	0.0	1500	1500	3660	15.33+	400	55.6	12.9	33.5
8-9 AM	4284	0.0	1500	1500	2784	15.78+	400	61.6	12.9	33.5
9-10 AM	3579	0.0	1500	1500	2079	16.07+	400	66.3	12.9	33.5
10-11 AM	3476	0.0	1500	1500	1976	16.08+	400	66.4	12.9	33.5
11AM-NOON	3676	0.0	1500	1500	2176	16.04+	400	65.8	12.9	33.5
NOON-1PM	3982	0.0	1500	1500	2482	15.91+	400	63.7	12.9	33.5
1-2 PM	4219	0.0	1500	1500	2719	15.81+	400	62.0	12.9	33.5
2-3 PM	4659	0.0	1500	1500	3159	15.60+	400	59.1	12.9	33.5
3-4 PM	4842	0.0	1500	1500	3342	15.50+	400	57.8	12.9	33.5
4-5 PM	5192	0.0	1500	1500	3692	15.31+	400	55.4	12.9	33.5
5-6 PM	5356	0.0	1500	1500	3856	15.21+	400	54.3	12.9	33.5
6-7 PM	4309	0.0	1500	1500	2809	15.77+	400	61.4	12.9	33.5
7-8 PM	3322	0.0	1500	1500	1822	16.09+	400	66.6	12.9	33.5
8-9 PM	2719	0.0	1500	1500	1219	16.14+	400	67.4	12.9	33.5
9-10 PM	2510	0.0	1500	1532	978	16.10+	396	67.6	12.9	32.2
10-11 PM	1962	0.0	1500	1556	406	16.10+	393	68.3	13.0	30.8
11PM-MID	1409	0.0	1500	1387	22	14.92+	364	69.0	13.8	30.8

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0511
MAIN ROUTE WITH WORKS	0.0197
'DIVERSION'	0.0679

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$246,742
CONGESTED HOURS PER DAY*	19

*Delays Exceeding User-Specified Maximum

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