

**IH 43/894: HALE INTERCHANGE TO STH 27 (MILWAUKEE COUNTY)
NIGHTTIME 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

OCTOBER
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	662	0.0	1500	662	0	0.55	0	69.9	60.9	42.9	
1-2 AM	428	0.0	1500	428	0	0.52	0	70.2	61.4	43.8	
2-3 AM	396	0.0	1500	396	0	0.52	0	70.2	61.5	43.9	
3-4 AM	484	0.0	1500	484	0	0.53	0	70.1	61.3	43.6	
4-5 AM	955	0.0	1499	955	0	0.64	0	69.6	59.4	40.4	
5-6 AM	2525	0.0	OFF	2525	0	0.00	0	67.6	67.6	67.6	
6-7 AM	4504	0.0	OFF	4504	0	0.00	0	60.1	60.1	60.1	
7-8 AM	4698	0.0	OFF	4698	0	0.00	0	58.7	58.7	58.7	
8-9 AM	3955	0.0	OFF	3955	0	0.00	0	63.8	63.8	63.8	
9-10 AM	3541	0.0	OFF	3541	0	0.00	0	66.3	66.3	66.3	
10-11 AM	3505	0.0	OFF	3505	0	0.00	0	66.4	66.4	66.4	
11AM-NOON	3600	0.0	OFF	3600	0	0.00	0	66.3	66.3	66.3	
NOON-1PM	3769	0.0	OFF	3769	0	0.00	0	65.1	65.1	65.1	
1-2 PM	3987	0.0	OFF	3987	0	0.00	0	63.6	63.6	63.6	
2-3 PM	4596	0.0	OFF	4596	0	0.00	0	59.4	59.4	59.4	
3-4 PM	5418	0.0	OFF	5418	0	0.00	0	53.8	53.8	53.8	
4-5 PM	5668	0.0	OFF	5668	0	0.00	0	52.2	52.2	52.2	
5-6 PM	5222	0.0	OFF	5222	0	0.00	0	55.2	55.2	55.2	
6-7 PM	4262	0.0	OFF	4262	0	0.00	0	61.7	61.7	61.7	
7-8 PM	2858	0.0	1499	1550	1308	16.48+	412	67.2	12.7	36.6	
8-9 PM	2319	0.0	1499	1867	453	13.03+	331	67.9	15.3	31.6	
9-10 PM	2156	0.0	1499	1500	656	16.33+	399	68.1	12.8	30.8	
10-11 PM	1582	0.0	1500	1454	128	16.17+	394	68.7	12.9	30.8	
11PM-MID	1041	0.0	1499	1041	0	5.13	176	69.4	29.2	36.5	

"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	0.0494
MAIN ROUTE WITH WORKS	0.0469
'DIVERSION'	0.0040
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$33,065
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

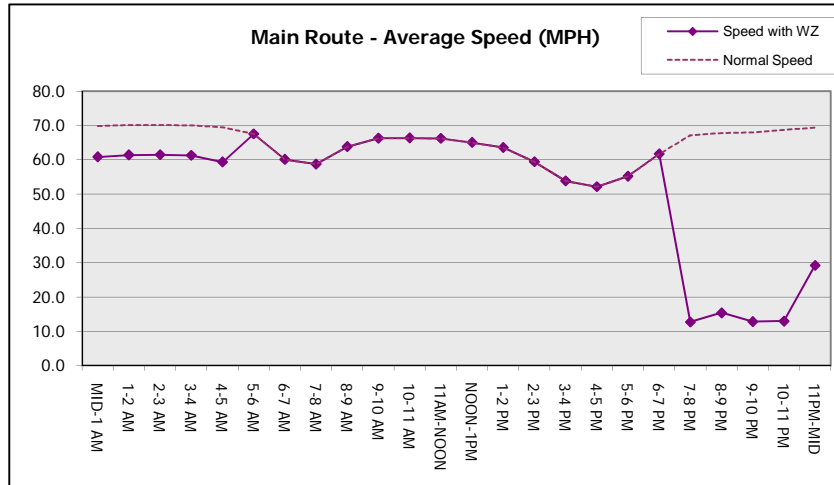
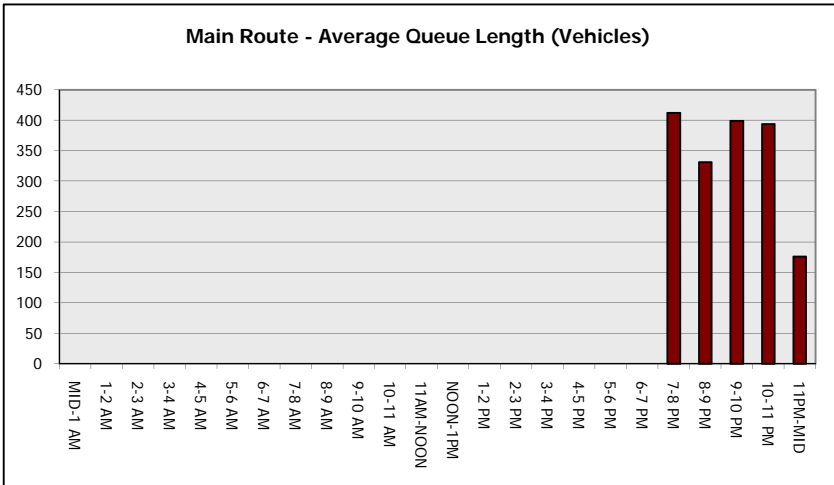
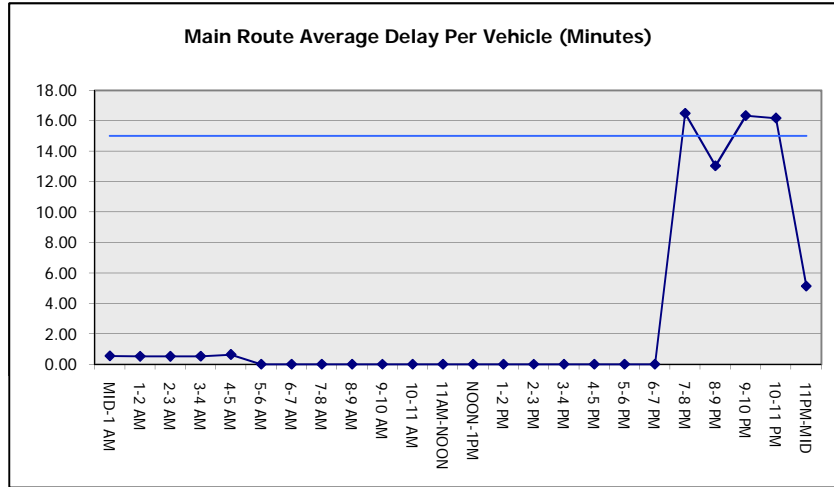
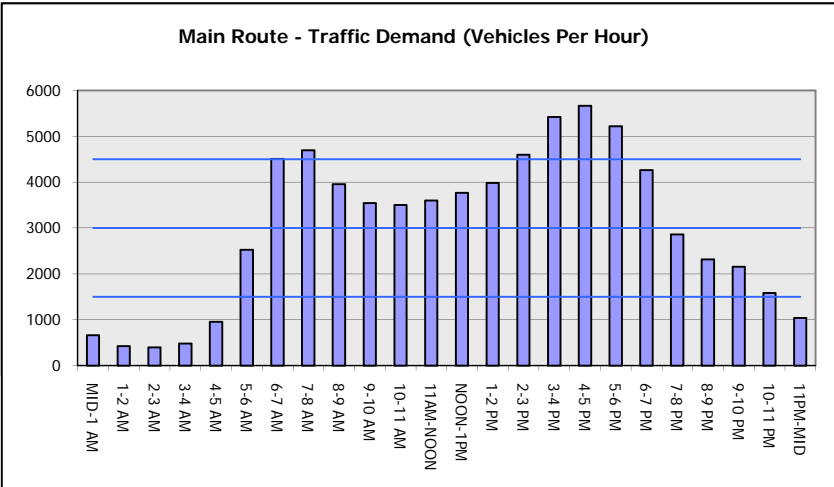
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

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	527	0.0	1500	527	0	0.54	0	70.0	61.2	43.4
1-2 AM	361	0.0	1500	361	0	0.52	0	70.2	61.5	44.0
2-3 AM	372	0.0	1500	372	0	0.52	0	70.2	61.5	44.0
3-4 AM	514	0.0	1500	514	0	0.53	0	70.1	61.2	43.5
4-5 AM	1052	0.0	1499	1052	0	0.71	0	69.4	58.3	38.7
5-6 AM	2650	0.0	OFF	2650	0	0.00	0	67.4	67.4	67.4
6-7 AM	5221	0.0	OFF	5221	0	0.00	0	55.2	55.2	55.2
7-8 AM	5609	0.0	OFF	5609	0	0.00	0	52.5	52.5	52.5
8-9 AM	4669	0.0	OFF	4669	0	0.00	0	58.9	58.9	58.9
9-10 AM	3563	0.0	OFF	3563	0	0.00	0	66.3	66.3	66.3
10-11 AM	3344	0.0	OFF	3344	0	0.00	0	66.6	66.6	66.6
11AM-NOON	3440	0.0	OFF	3440	0	0.00	0	66.4	66.4	66.4
NOON-1PM	3670	0.0	OFF	3670	0	0.00	0	65.8	65.8	65.8
1-2 PM	3857	0.0	OFF	3857	0	0.00	0	64.5	64.5	64.5
2-3 PM	4445	0.0	OFF	4445	0	0.00	0	60.5	60.5	60.5
3-4 PM	4986	0.0	OFF	4986	0	0.00	0	56.8	56.8	56.8
4-5 PM	5365	0.0	OFF	5365	0	0.00	0	54.2	54.2	54.2
5-6 PM	5451	0.0	OFF	5451	0	0.00	0	53.6	53.6	53.6
6-7 PM	4177	0.0	OFF	4177	0	0.00	0	62.3	62.3	62.3
7-8 PM	3064	0.0	1499	1550	1514	16.47+	412	66.9	12.7	36.6
8-9 PM	2585	0.0	1499	1672	913	13.77+	359	67.5	14.7	35.5
9-10 PM	2207	0.0	1499	1732	475	15.53+	382	68.0	13.4	30.8
10-11 PM	1513	0.0	1499	1359	155	14.97+	364	68.9	13.8	30.8
11PM-MID	1072	0.0	1499	1072	0	4.19	141	69.4	32.6	36.5

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0504
MAIN ROUTE WITH WORKS	0.0477
'DIVERSION'	0.0048

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$33,989
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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