

IH 94: STH 50 TO STATE LINE (KENOSHA COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY WESTBOUND 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	732	0.0	OFF	732	0	0.00	0	70.2	70.2	70.2	
1-2 AM	461	0.0	OFF	461	0	0.00	0	70.2	70.2	70.2	
2-3 AM	306	0.0	OFF	306	0	0.00	0	70.2	70.2	70.2	
3-4 AM	239	0.0	OFF	239	0	0.00	0	70.2	70.2	70.2	
4-5 AM	270	0.0	OFF	270	0	0.00	0	70.2	70.2	70.2	
5-6 AM	349	0.0	OFF	349	0	0.00	0	70.2	70.2	70.2	
6-7 AM	529	0.0	OFF	529	0	0.00	0	70.2	70.2	70.2	
7-8 AM	894	0.0	OFF	894	0	0.00	0	70.2	70.2	70.2	
8-9 AM	1438	0.0	OFF	1438	0	0.00	0	70.2	70.2	70.2	
9-10 AM	2189	0.0	3000	2189	0	0.35	0	69.3	64.3	49.7	
10-11 AM	2826	0.0	2999	2826	0	0.65	0	68.5	59.9	39.8	
11AM-NOON	3391	0.0	2999	3391	0	3.62	179	67.8	37.6	36.9	
NOON-1PM	3337	0.0	2999	3337	0	10.82	564	67.9	19.9	36.9	
1-2 PM	3224	0.0	2999	3082	142	15.10+	790	68.1	15.6	36.9	
2-3 PM	3116	0.0	3000	3000	116	15.30+	800	68.2	15.5	36.9	
3-4 PM	3080	0.0	2999	2992	88	15.28+	799	68.2	15.5	36.9	
4-5 PM	3302	0.0	3000	3000	302	15.28+	800	67.9	15.5	36.9	
5-6 PM	2983	0.0	3000	2974	10	15.21+	794	68.3	15.5	36.9	
6-7 PM	3031	0.0	3000	3020	11	15.20+	794	68.2	15.5	36.9	
7-8 PM	2772	0.0	OFF	2772	0	1.05	98	68.6	55.5	55.5	
8-9 PM	2199	0.0	OFF	2199	0	0.00	0	69.3	69.3	69.3	
9-10 PM	1660	0.0	OFF	1660	0	0.00	0	70.0	70.0	70.0	
10-11 PM	1269	0.0	OFF	1269	0	0.00	0	70.2	70.2	70.2	
11PM-MID	923	0.0	OFF	923	0	0.00	0	70.2	70.2	70.2	

"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

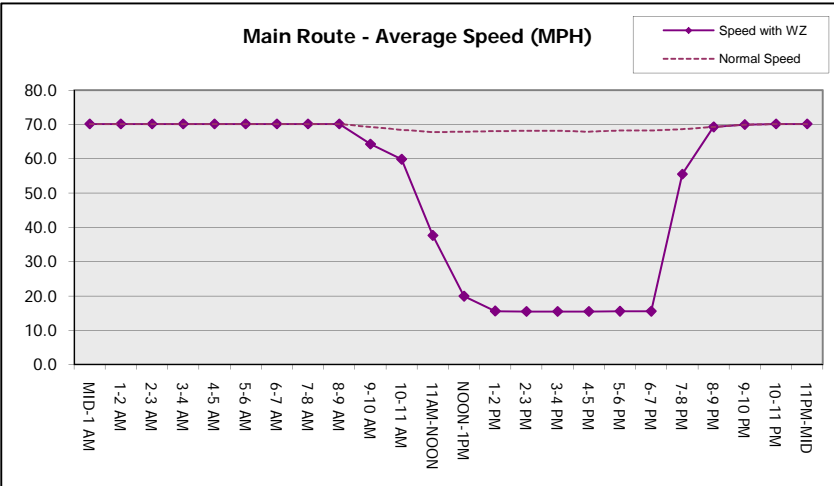
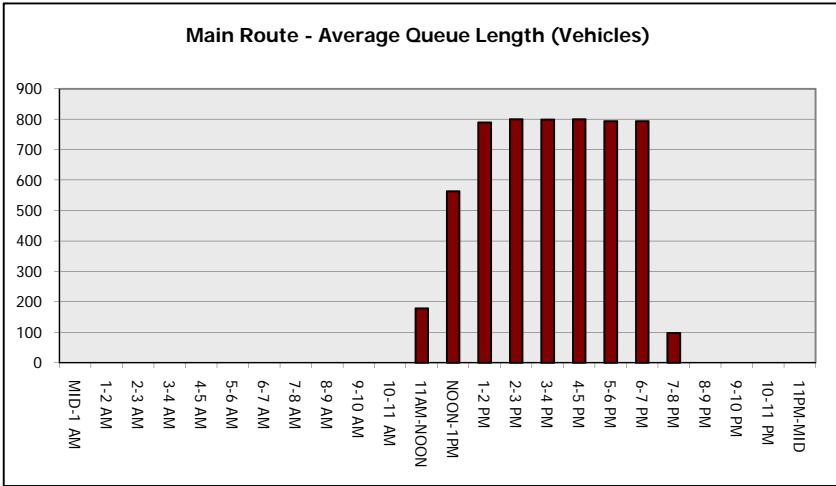
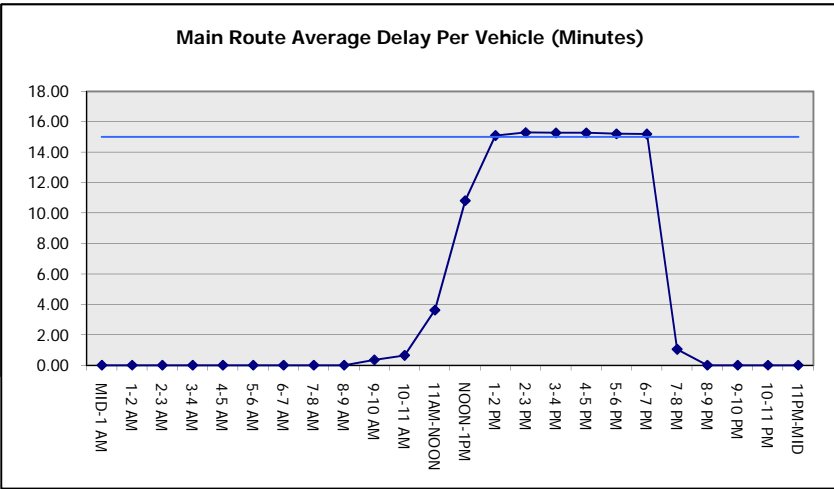
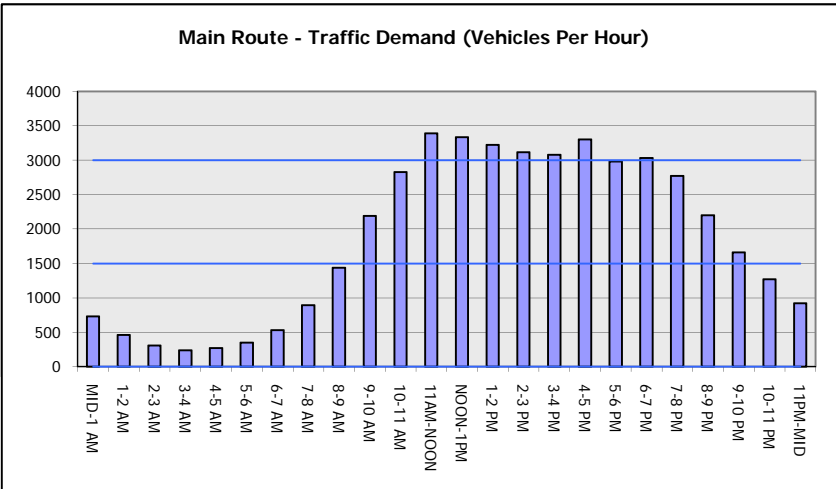
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0361
MAIN ROUTE WITH WORKS	0.0336
'DIVERSION'	0.0013
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$92,175
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY EASTBOUND 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	810	0.0	OFF	810	0	0.00	0	70.2	70.2	70.2
1-2 AM	566	0.0	OFF	566	0	0.00	0	70.2	70.2	70.2
2-3 AM	384	0.0	OFF	384	0	0.00	0	70.2	70.2	70.2
3-4 AM	303	0.0	OFF	303	0	0.00	0	70.2	70.2	70.2
4-5 AM	318	0.0	OFF	318	0	0.00	0	70.2	70.2	70.2
5-6 AM	436	0.0	OFF	436	0	0.00	0	70.2	70.2	70.2
6-7 AM	663	0.0	OFF	663	0	0.00	0	70.2	70.2	70.2
7-8 AM	969	0.0	OFF	969	0	0.00	0	70.2	70.2	70.2
8-9 AM	1469	0.0	OFF	1469	0	0.00	0	70.2	70.2	70.2
9-10 AM	2454	0.0	2999	2454	0	0.45	0	69.0	62.6	45.9
10-11 AM	3363	0.0	2999	3363	0	2.79	132	67.9	41.9	36.9
11AM-NOON	4010	0.0	3000	3448	561	12.80+	693	64.8	17.5	36.9
NOON-1PM	4268	0.0	3000	3000	1268	14.93+	800	63.0	15.5	36.9
1-2 PM	4442	0.0	3000	3000	1442	14.84+	800	61.8	15.5	36.9
2-3 PM	4409	0.0	3000	3000	1409	14.86+	800	62.0	15.5	36.9
3-4 PM	4465	0.0	3000	3000	1465	14.83+	800	61.7	15.5	36.9
4-5 PM	4240	0.0	3000	3000	1240	14.95+	800	63.2	15.5	36.9
5-6 PM	4049	0.0	3000	3000	1049	15.04+	800	64.5	15.5	36.9
6-7 PM	3548	0.0	3000	3000	548	15.26+	800	67.6	15.5	36.9
7-8 PM	3079	0.0	OFF	3079	0	1.31	112	68.2	52.8	52.8
8-9 PM	2608	0.0	OFF	2608	0	0.00	0	68.8	68.8	68.8
9-10 PM	1963	0.0	OFF	1963	0	0.00	0	69.6	69.6	69.6
10-11 PM	1253	0.0	OFF	1253	0	0.00	0	70.2	70.2	70.2
11PM-MID	814	0.0	OFF	814	0	0.00	0	70.2	70.2	70.2

"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	0.0446
MAIN ROUTE WITH WORKS	0.0353
'DIVERSION'	0.0169

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$137,402
CONGESTED HOURS PER DAY*	8

*Delays Exceeding User-Specified Maximum

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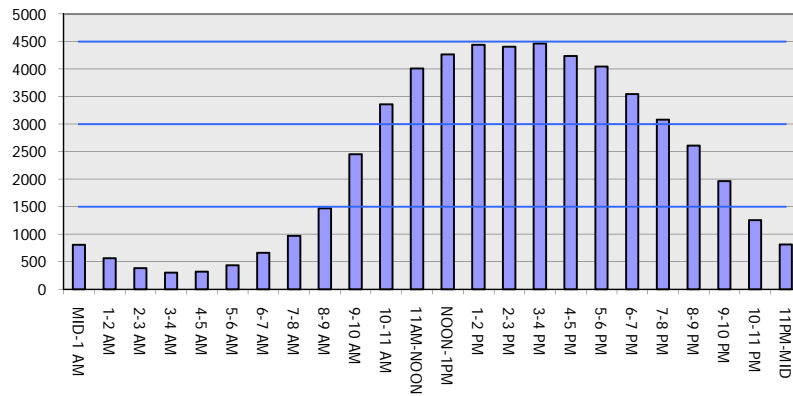
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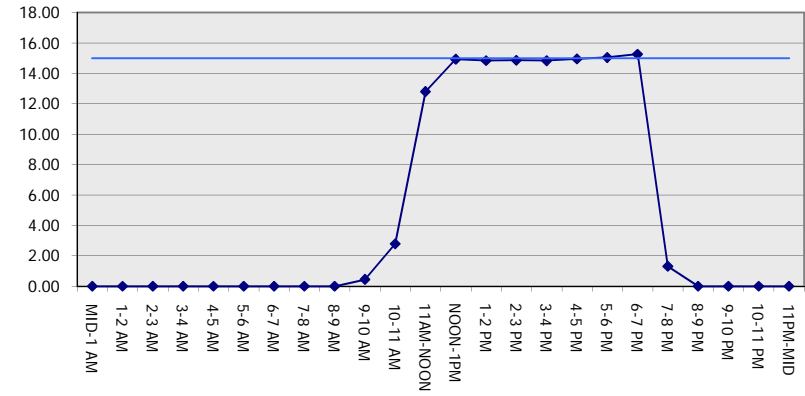
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY EASTBOUND DIRECTION

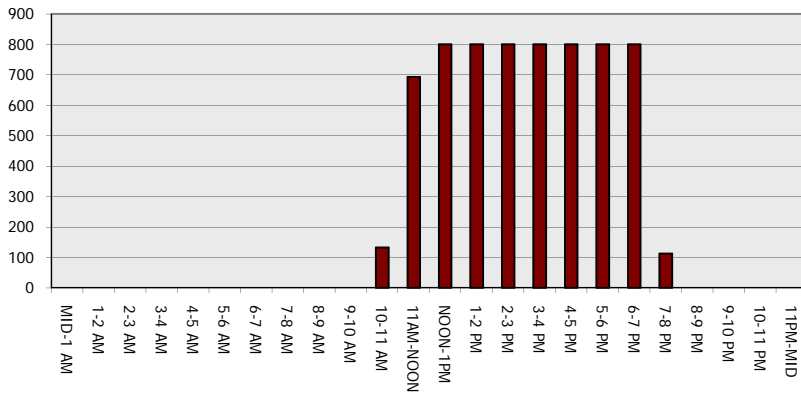
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

