

IH 94: CTH BB/RAWSON AVE TO STH 100/RYAN RD (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	901	0.0	1500	901	0	0.90	19	70.2	52.0	45.1	
1-2 AM	568	0.0	1500	568	0	0.44	0	70.2	59.9	46.6	
2-3 AM	458	0.0	1500	458	0	0.43	0	70.2	60.2	47.1	
3-4 AM	421	0.0	1500	421	0	0.42	0	70.2	60.2	47.3	
4-5 AM	445	0.0	1500	445	0	0.42	0	70.2	60.2	47.1	
5-6 AM	869	0.0	1500	869	0	0.48	0	70.2	59.2	45.3	
6-7 AM	1338	0.0	1499	1338	0	0.79	0	70.2	53.6	36.8	
7-8 AM	1700	0.0	1499	1700	0	2.91	66	69.9	32.8	32.5	
8-9 AM	2421	0.0	OFF	2421	0	0.07	5	69.1	67.3	67.3	
9-10 AM	2833	0.0	OFF	2833	0	0.00	0	68.5	68.5	68.5	
10-11 AM	3176	0.0	OFF	3176	0	0.00	0	68.1	68.1	68.1	
11AM-NOON	3295	0.0	OFF	3295	0	0.00	0	67.9	67.9	67.9	
NOON-1PM	3446	0.0	OFF	3446	0	0.00	0	67.8	67.8	67.8	
1-2 PM	3506	0.0	OFF	3506	0	0.00	0	67.7	67.7	67.7	
2-3 PM	3412	0.0	OFF	3412	0	0.00	0	67.8	67.8	67.8	
3-4 PM	3342	0.0	OFF	3342	0	0.00	0	67.9	67.9	67.9	
4-5 PM	3232	0.0	OFF	3232	0	0.00	0	68.0	68.0	68.0	
5-6 PM	3075	0.0	OFF	3075	0	0.00	0	68.2	68.2	68.2	
6-7 PM	2610	0.0	1499	1804	806	13.36+	334	68.8	11.2	37.2	
7-8 PM	2369	0.0	1499	1528	841	16.10+	397	69.1	9.6	33.5	
8-9 PM	2031	0.0	1500	1525	506	16.17+	397	69.5	9.6	32.5	
9-10 PM	1876	0.0	1499	1509	367	16.25+	398	69.7	9.6	32.5	
10-11 PM	1588	0.0	1500	1532	57	16.09+	394	70.0	9.6	32.4	
11PM-MID	1243	0.0	1499	1243	0	11.47	290	70.2	12.8	33.3	

"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

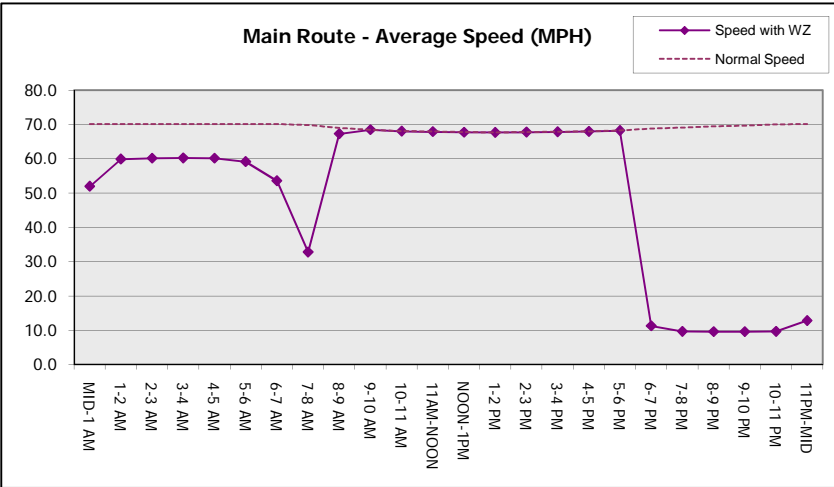
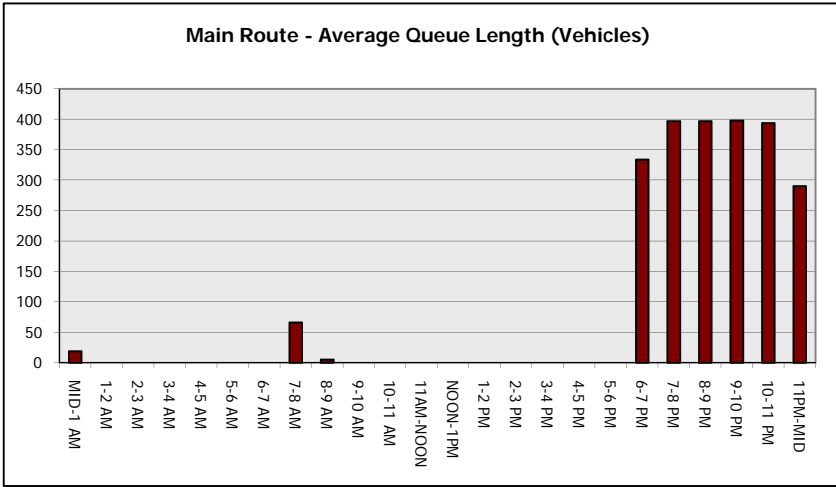
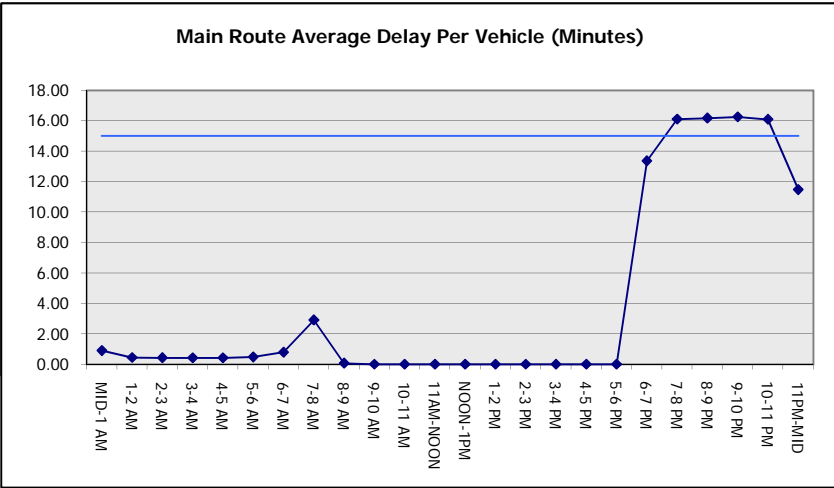
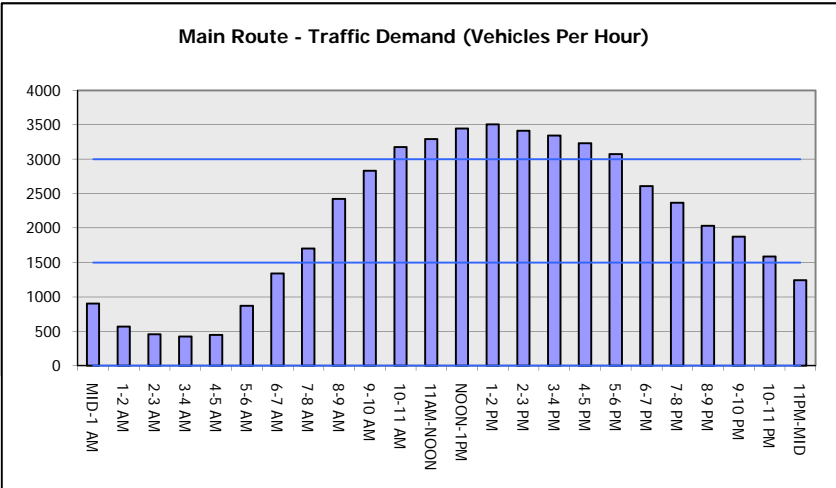
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0240
MAIN ROUTE WITH WORKS	0.0217
'DIVERSION'	0.0028
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$47,873
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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AUGUST
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION



IH 94: CTH BB/RAWSON AVE TO STH 100/Ryan RD (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	975	0.0	1500	975	0	1.59	50	70.2	43.3	42.7
1-2 AM	603	0.0	1500	603	0	0.44	0	70.2	59.8	46.5
2-3 AM	582	0.0	1500	582	0	0.44	0	70.2	59.9	46.6
3-4 AM	497	0.0	1500	497	0	0.43	0	70.2	60.1	46.9
4-5 AM	684	0.0	1500	684	0	0.45	0	70.2	59.6	46.1
5-6 AM	1146	0.0	1500	1146	0	0.54	0	70.2	57.9	43.2
6-7 AM	1228	0.0	1499	1228	0	0.65	0	70.2	56.0	40.1
7-8 AM	1459	0.0	1499	1459	0	1.16	7	70.2	48.3	34.2
8-9 AM	2022	0.0	OFF	2022	0	0.00	0	69.6	69.5	69.5
9-10 AM	2558	0.0	OFF	2558	0	0.00	0	68.9	68.9	68.9
10-11 AM	2908	0.0	OFF	2908	0	0.00	0	68.4	68.4	68.4
11AM-NOON	3229	0.0	OFF	3229	0	0.00	0	68.0	68.0	68.0
NOON-1PM	3384	0.0	OFF	3384	0	0.00	0	67.8	67.8	67.8
1-2 PM	3247	0.0	OFF	3247	0	0.00	0	68.0	68.0	68.0
2-3 PM	3439	0.0	OFF	3439	0	0.00	0	67.8	67.8	67.8
3-4 PM	3328	0.0	OFF	3328	0	0.00	0	67.9	67.9	67.9
4-5 PM	3158	0.0	OFF	3158	0	0.00	0	68.1	68.1	68.1
5-6 PM	2888	0.0	OFF	2888	0	0.00	0	68.4	68.4	68.4
6-7 PM	2506	0.0	1499	1882	624	13.01+	324	68.9	11.5	35.0
7-8 PM	2224	0.0	1499	1500	724	16.27+	399	69.3	9.6	32.5
8-9 PM	2127	0.0	1500	1500	627	16.28+	400	69.4	9.6	32.5
9-10 PM	2223	0.0	1500	1500	723	16.27+	400	69.3	9.6	32.5
10-11 PM	1763	0.0	1499	1500	263	16.29+	400	69.9	9.6	32.5
11PM-MID	1327	0.0	1500	1327	0	13.01	320	70.2	11.6	32.5

"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	0.0236
MAIN ROUTE WITH WORKS	0.0211
'DIVERSION'	0.0033

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$49,668
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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NIGHTTIME 2 LANE CLOSURE
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AUGUST

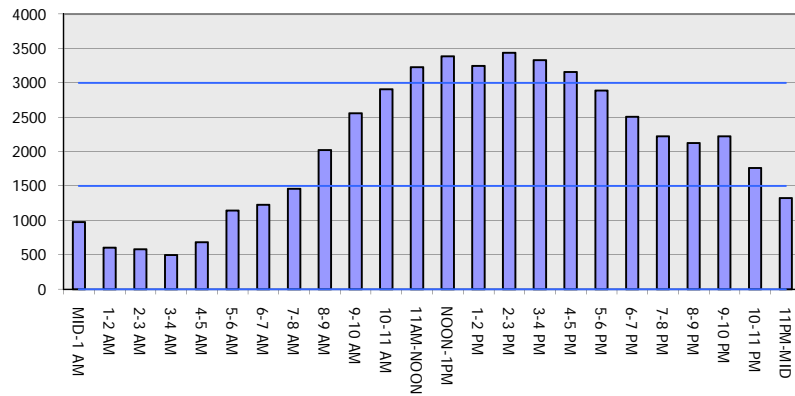
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

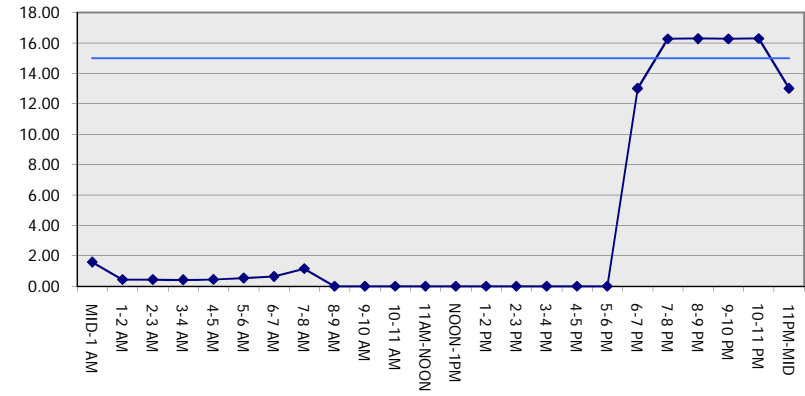
SATURDAY

EASTBOUND DIRECTION

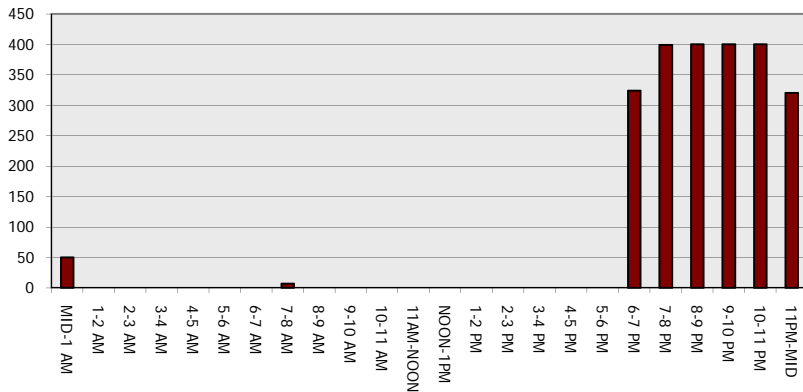
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

