

IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	563	0.0	1500	563	0	0.54	0	70.0	59.4	43.3	
1-2 AM	398	0.0	1500	398	0	0.52	0	70.2	59.7	43.9	
2-3 AM	370	0.0	1500	370	0	0.52	0	70.2	59.8	44.0	
3-4 AM	367	0.0	1500	367	0	0.52	0	70.2	59.8	44.0	
4-5 AM	750	0.0	1500	750	0	0.56	0	69.8	58.8	42.6	
5-6 AM	1750	0.0	OFF	1750	0	0.00	0	68.6	68.6	68.6	
6-7 AM	2897	0.0	OFF	2897	0	0.00	0	67.1	67.1	67.1	
7-8 AM	3191	0.0	OFF	3191	0	0.00	0	66.8	66.8	66.8	
8-9 AM	2867	0.0	OFF	2867	0	0.00	0	67.2	67.2	67.2	
9-10 AM	2449	0.0	OFF	2449	0	0.00	0	67.7	67.7	67.7	
10-11 AM	2603	0.0	OFF	2603	0	0.00	0	67.5	67.5	67.5	
11AM-NOON	2905	0.0	OFF	2905	0	0.00	0	67.1	67.1	67.1	
NOON-1PM	3193	0.0	OFF	3193	0	0.00	0	66.8	66.8	66.8	
1-2 PM	3340	0.0	OFF	3340	0	0.00	0	66.6	66.6	66.6	
2-3 PM	4241	0.0	OFF	4241	0	0.00	0	61.9	61.9	61.9	
3-4 PM	5009	0.0	OFF	5009	0	0.00	0	56.6	56.6	56.6	
4-5 PM	5568	0.0	OFF	5568	0	0.00	0	52.8	52.8	52.8	
5-6 PM	5550	0.0	OFF	5550	0	0.00	0	52.9	52.9	52.9	
6-7 PM	3587	0.0	OFF	3587	0	0.00	0	66.3	66.3	66.3	
7-8 PM	2524	0.0	1499	1779	745	13.41+	334	67.6	12.7	35.0	
8-9 PM	2128	0.0	1499	1612	515	15.90+	389	68.1	11.1	30.8	
9-10 PM	1973	0.0	1500	1500	473	16.35+	400	68.3	10.8	30.8	
10-11 PM	1525	0.0	1500	1449	75	15.70+	383	68.9	11.2	30.8	
11PM-MID	966	0.0	1499	966	0	3.37	132	69.6	32.9	37.8	

"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

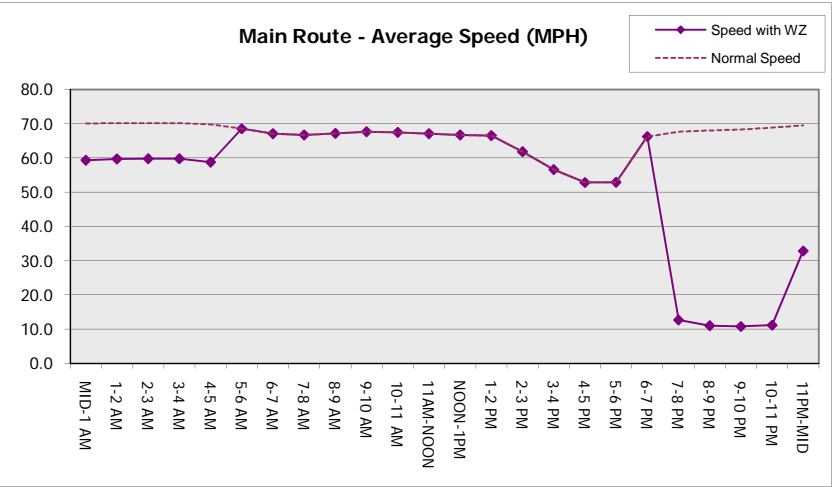
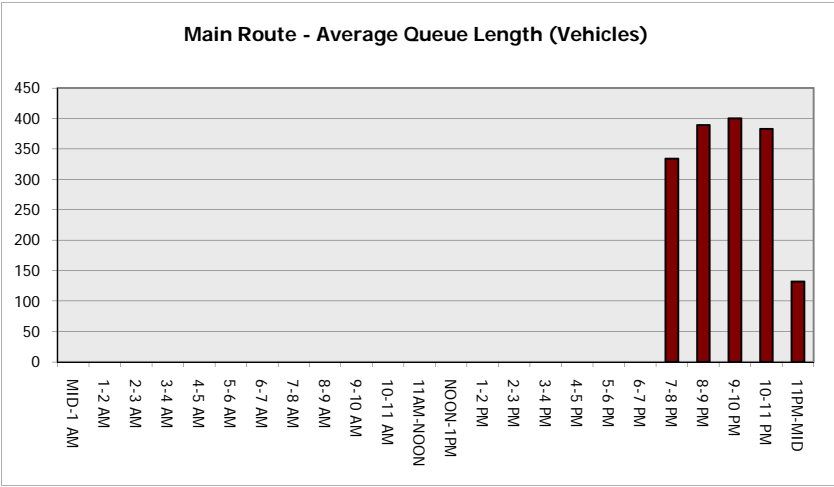
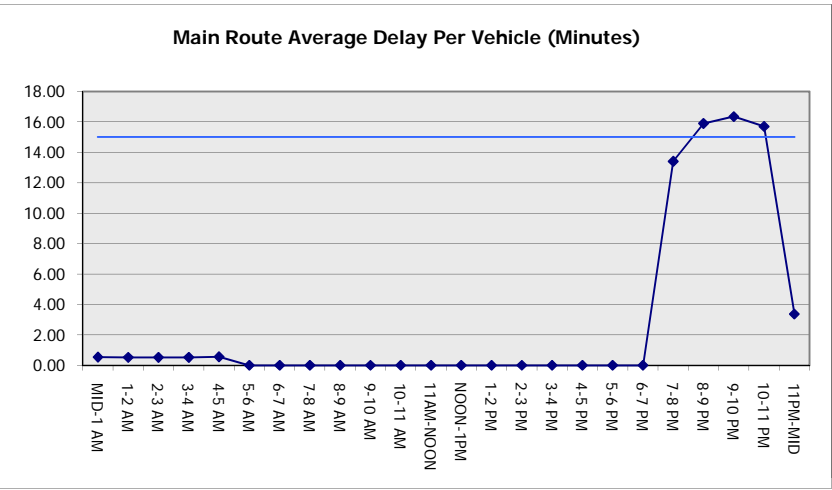
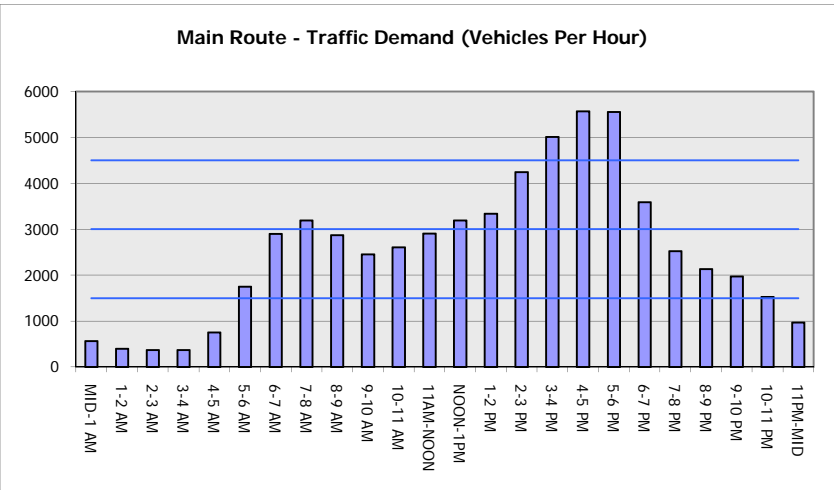
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0338
MAIN ROUTE WITH WORKS	0.0322
'DIVERSION'	0.0023
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$29,665
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	604	0.0	1500	604	0	0.54	0	70.0	59.2	43.1
1-2 AM	310	0.0	1500	310	0	0.51	0	70.2	59.9	44.2
2-3 AM	277	0.0	1500	277	0	0.51	0	70.2	60.0	44.4
3-4 AM	315	0.0	1500	315	0	0.51	0	70.2	59.9	44.2
4-5 AM	532	0.0	1500	532	0	0.54	0	70.0	59.4	43.4
5-6 AM	2008	0.0	OFF	2008	0	0.00	0	68.2	68.2	68.2
6-7 AM	4512	0.0	OFF	4512	0	0.00	0	60.1	60.1	60.1
7-8 AM	5580	0.0	OFF	5580	0	0.00	0	52.7	52.7	52.7
8-9 AM	4409	0.0	OFF	4409	0	0.00	0	60.7	60.7	60.7
9-10 AM	2791	0.0	OFF	2791	0	0.00	0	67.3	67.3	67.3
10-11 AM	2671	0.0	OFF	2671	0	0.00	0	67.4	67.4	67.4
11AM-NOON	2756	0.0	OFF	2756	0	0.00	0	67.3	67.3	67.3
NOON-1PM	2889	0.0	OFF	2889	0	0.00	0	67.1	67.1	67.1
1-2 PM	2901	0.0	OFF	2901	0	0.00	0	67.1	67.1	67.1
2-3 PM	3273	0.0	OFF	3273	0	0.00	0	66.7	66.7	66.7
3-4 PM	3470	0.0	OFF	3470	0	0.00	0	66.4	66.4	66.4
4-5 PM	3532	0.0	OFF	3532	0	0.00	0	66.3	66.3	66.3
5-6 PM	3721	0.0	OFF	3721	0	0.00	0	65.5	65.5	65.5
6-7 PM	2905	0.0	OFF	2905	0	0.00	0	67.1	67.1	67.1
7-8 PM	2387	0.0	1499	1941	446	12.75+	318	67.8	13.2	31.3
8-9 PM	2107	0.0	1499	1500	607	16.34+	399	68.1	10.8	30.8
9-10 PM	2025	0.0	1500	1500	525	16.35+	400	68.2	10.8	30.8
10-11 PM	1463	0.0	1499	1353	109	14.83+	361	68.9	11.7	30.8
11PM-MID	993	0.0	1499	993	0	2.84	104	69.5	35.8	38.1

"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	0.0325
MAIN ROUTE WITH WORKS	0.0310
'DIVERSION'	0.0022

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$28,536
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

