

IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) 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	3000	563	0	0.36	0	70.0	62.6	49.7
1-2 AM	398	0.0	3000	398	0	0.36	0	70.2	62.7	49.7
2-3 AM	370	0.0	3000	370	0	0.36	0	70.2	62.7	49.7
3-4 AM	367	0.0	3000	367	0	0.36	0	70.2	62.7	49.7
4-5 AM	750	0.0	3000	750	0	0.35	0	69.8	62.4	49.7
5-6 AM	1750	0.0	3000	1750	0	0.34	0	68.6	61.7	49.7
6-7 AM	2897	0.0	2999	2897	0	0.79	9	67.1	53.6	39.7
7-8 AM	3191	0.0	3000	3191	0	3.04	134	66.8	33.9	37.3
8-9 AM	2867	0.0	2999	2867	0	4.04	186	67.2	29.3	37.5
9-10 AM	2449	0.0	3000	2449	0	0.51	8	67.7	58.2	47.7
10-11 AM	2603	0.0	3000	2603	0	0.47	0	67.5	58.6	44.5
11AM-NOON	2905	0.0	2999	2905	0	0.67	0	67.1	55.3	38.8
NOON-1PM	3193	0.0	2999	3193	0	2.08	83	66.8	40.2	37.3
1-2 PM	3340	0.0	2999	3340	0	6.43	330	66.6	21.9	37.3
2-3 PM	4241	0.0	3000	3369	872	14.94+	804	61.9	12.5	37.3
3-4 PM	5009	0.0	2999	2986	2023	15.60+	856	56.6	12.2	37.3
4-5 PM	5568	0.0	3000	3000	2568	15.32+	857	52.8	12.2	37.3
5-6 PM	5550	0.0	3000	3000	2550	15.33+	857	52.9	12.2	37.3
6-7 PM	3587	0.0	3000	2952	636	15.80+	832	66.3	12.3	37.3
7-8 PM	2524	0.0	2999	2524	0	12.13+	647	67.6	14.3	37.8
8-9 PM	2128	0.0	3000	2128	0	1.27	82	68.1	48.2	48.5
9-10 PM	1973	0.0	3000	1973	0	0.34	0	68.3	61.5	49.7
10-11 PM	1525	0.0	3000	1525	0	0.34	0	68.9	61.9	49.7
11PM-MID	966	0.0	3000	966	0	0.35	0	69.6	62.3	49.7

+ 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

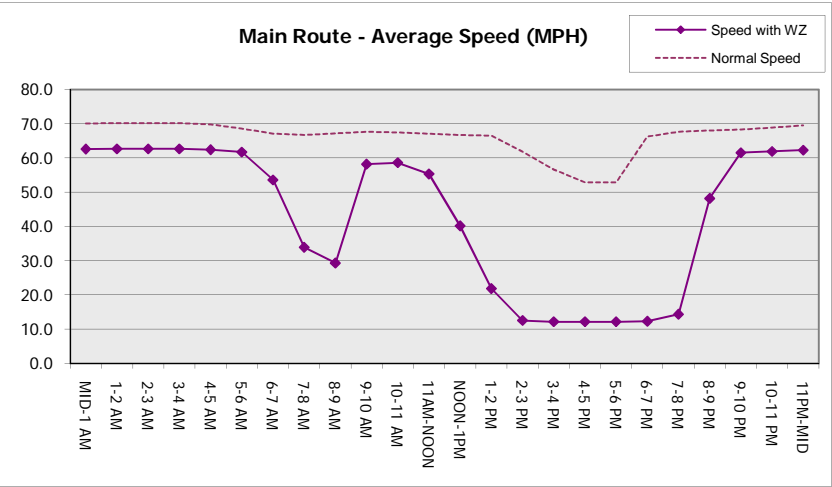
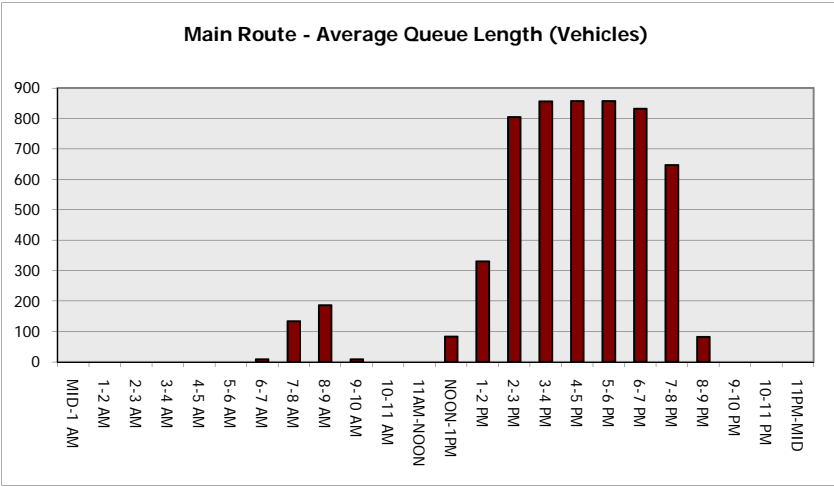
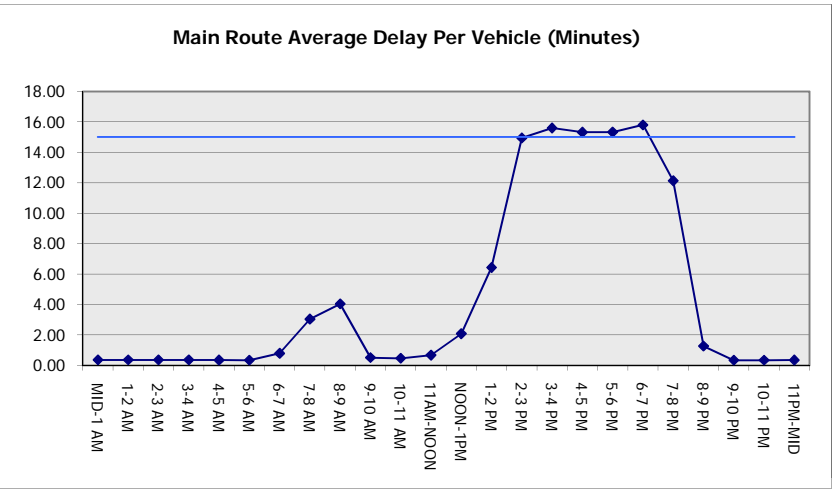
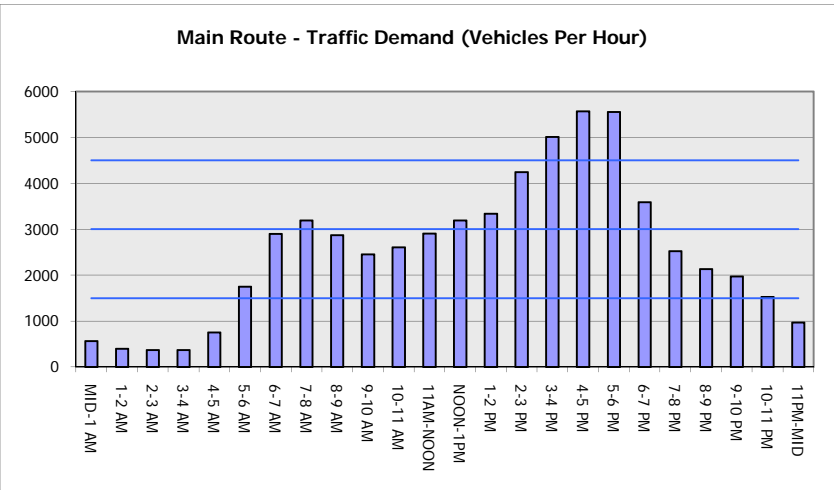
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0338
MAIN ROUTE WITH WORKS	0.0255
'DIVERSION'	0.0112
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$100,557
CONGESTED HOURS PER DAY*	6

*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	3000	604	0	0.36	0	70.0	62.5	49.7	
1-2 AM	310	0.0	3000	310	0	0.36	0	70.2	62.7	49.7	
2-3 AM	277	0.0	3000	277	0	0.36	0	70.2	62.7	49.7	
3-4 AM	315	0.0	3000	315	0	0.36	0	70.2	62.7	49.7	
4-5 AM	532	0.0	3000	532	0	0.36	0	70.0	62.6	49.7	
5-6 AM	2008	0.0	2999	2008	0	0.37	0	68.2	60.9	48.2	
6-7 AM	4512	0.0	2999	3835	677	8.47+	535	60.1	18.3	37.3	
7-8 AM	5580	0.0	2999	3000	2580	15.31+	857	52.7	12.2	37.3	
8-9 AM	4409	0.0	3000	3002	1407	15.71+	846	60.7	12.2	37.3	
9-10 AM	2791	0.0	2999	2779	12	14.78+	776	67.3	12.7	37.3	
10-11 AM	2671	0.0	3000	2671	0	8.73	452	67.4	17.7	37.3	
11AM-NOON	2756	0.0	3000	2756	0	3.36	157	67.3	32.4	37.9	
NOON-1PM	2889	0.0	3000	2889	0	0.78	7	67.1	53.7	38.8	
1-2 PM	2901	0.0	2999	2901	0	0.66	0	67.1	55.4	38.8	
2-3 PM	3273	0.0	2999	3273	0	2.61	118	66.7	36.5	37.3	
3-4 PM	3470	0.0	3000	3470	0	9.38	500	66.4	16.9	37.3	
4-5 PM	3532	0.0	2999	3061	470	15.70+	826	66.3	12.4	37.3	
5-6 PM	3721	0.0	3000	3006	715	15.78+	834	65.5	12.3	37.3	
6-7 PM	2905	0.0	3000	2892	13	15.18+	797	67.1	12.5	37.3	
7-8 PM	2387	0.0	2999	2387	0	7.35	421	67.8	20.2	40.2	
8-9 PM	2107	0.0	3000	2107	0	0.40	4	68.1	60.2	49.7	
9-10 PM	2025	0.0	3000	2025	0	0.33	0	68.2	61.5	49.7	
10-11 PM	1463	0.0	3000	1463	0	0.34	0	68.9	61.9	49.7	
11PM-MID	993	0.0	3000	993	0	0.35	0	69.5	62.3	49.7	

+ 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	0.0258
'DIVERSION'	0.0076

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$107,246
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

