

IH 43/94: BECHER ST TO MITCHELL INTERCHANGE (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	736	0.0	3000	736	0	0.35	0	69.8	62.5	49.7
1-2 AM	489	0.0	3000	489	0	0.36	0	70.1	62.6	49.7
2-3 AM	407	0.0	3000	407	0	0.36	0	70.2	62.7	49.7
3-4 AM	399	0.0	3000	399	0	0.36	0	70.2	62.7	49.7
4-5 AM	818	0.0	3000	818	0	0.35	0	69.7	62.4	49.7
5-6 AM	1802	0.0	3000	1802	0	0.34	0	68.5	61.7	49.7
6-7 AM	2778	0.0	2999	2778	0	0.58	0	67.3	56.8	41.2
7-8 AM	3210	0.0	2999	3210	0	2.40	101	66.8	37.8	37.3
8-9 AM	2879	0.0	2999	2879	0	3.61	161	67.1	31.2	37.3
9-10 AM	2820	0.0	2999	2820	0	1.01	23	67.3	50.8	39.5
10-11 AM	2803	0.0	2999	2803	0	0.60	0	67.3	56.4	40.5
11AM-NOON	3045	0.0	2999	3045	0	0.96	14	66.9	51.2	37.4
NOON-1PM	3365	0.0	3000	3365	0	4.54	231	66.6	27.3	37.3
1-2 PM	3330	0.0	2999	3330	0	10.68	559	66.6	15.3	37.3
2-3 PM	4271	0.0	2999	3078	1193	15.75+	845	61.7	12.2	37.3
3-4 PM	5255	0.0	2999	3000	2255	15.50+	857	55.0	12.2	37.3
4-5 PM	5702	0.0	3000	3000	2702	15.24+	857	51.9	12.2	37.3
5-6 PM	5576	0.0	3000	3000	2576	15.32+	857	52.8	12.2	37.3
6-7 PM	3799	0.0	3000	3005	794	15.77+	835	64.9	12.3	37.3
7-8 PM	2677	0.0	2999	2677	0	13.81+	726	67.4	13.2	37.3
8-9 PM	2126	0.0	2999	2126	0	2.09	165	68.1	40.6	46.7
9-10 PM	1984	0.0	3000	1984	0	0.33	0	68.2	61.5	49.7
10-11 PM	1785	0.0	3000	1785	0	0.34	0	68.5	61.7	49.7
11PM-MID	1202	0.0	3000	1202	0	0.35	0	69.2	62.1	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	0.0352
MAIN ROUTE WITH WORKS	0.0264
'DIVERSION'	0.0123
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$111,263
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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AUGUST

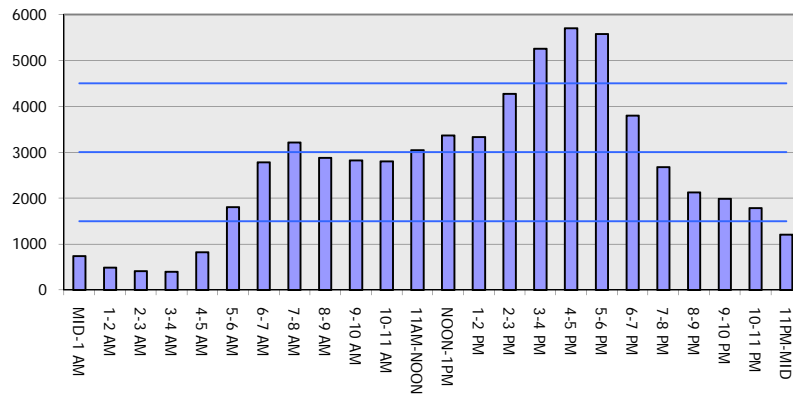
Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

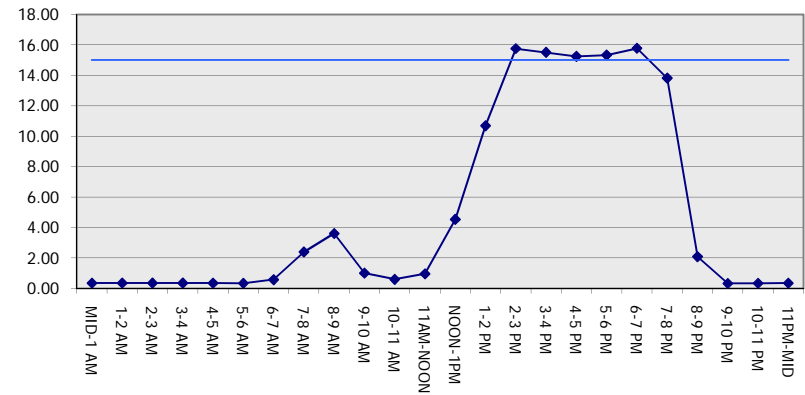
MON-THUR

WESTBOUND DIRECTION

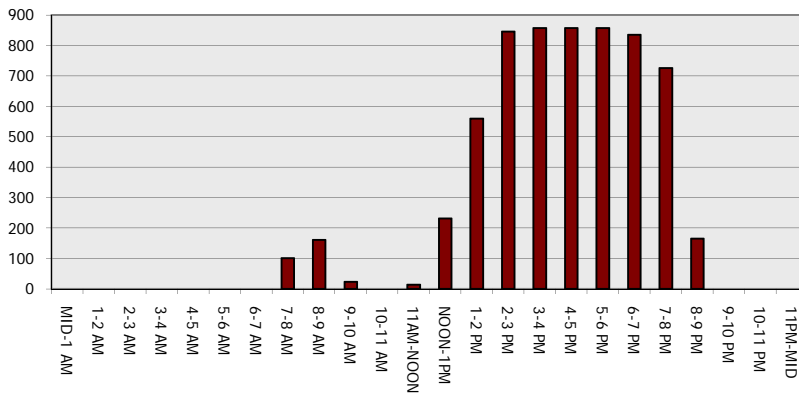
Main Route - Traffic Demand (Vehicles Per Hour)



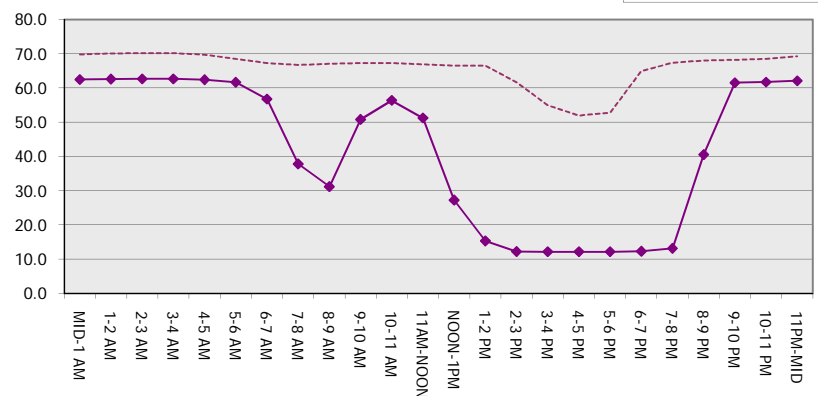
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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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	681	0.0	3000	681	0	0.36	0	69.9	62.5	49.7
1-2 AM	372	0.0	3000	372	0	0.36	0	70.2	62.7	49.7
2-3 AM	323	0.0	3000	323	0	0.36	0	70.2	62.7	49.7
3-4 AM	326	0.0	3000	326	0	0.36	0	70.2	62.7	49.7
4-5 AM	562	0.0	3000	562	0	0.36	0	70.0	62.6	49.7
5-6 AM	1884	0.0	2999	1884	0	0.34	0	68.4	61.6	49.7
6-7 AM	4070	0.0	2999	4070	0	6.41+	434	63.0	22.2	37.3
7-8 AM	5104	0.0	3000	2848	2256	15.34+	846	56.0	12.2	37.9
8-9 AM	4352	0.0	2999	2942	1410	15.73+	845	61.1	12.2	37.3
9-10 AM	2994	0.0	2999	2883	111	15.48+	813	67.0	12.4	37.3
10-11 AM	2728	0.0	2999	2728	0	11.70	609	67.3	14.4	37.3
11AM-NOON	2923	0.0	3000	2923	0	8.47	426	67.1	18.1	37.3
NOON-1PM	2929	0.0	2999	2929	0	7.30	362	67.1	20.1	37.3
1-2 PM	2813	0.0	2999	2813	0	4.72	224	67.3	26.8	37.3
2-3 PM	3093	0.0	3000	3093	0	3.79	170	66.9	30.3	37.3
3-4 PM	3232	0.0	3000	3232	0	6.72	338	66.7	21.2	37.3
4-5 PM	3350	0.0	3000	3350	0	12.02+	632	66.6	14.2	37.3
5-6 PM	3392	0.0	2999	3004	388	15.82+	833	66.5	12.3	37.3
6-7 PM	2722	0.0	3000	2722	0	13.62+	714	67.4	13.2	37.3
7-8 PM	2193	0.0	2999	2193	0	2.57	201	68.0	37.1	45.5
8-9 PM	1846	0.0	3000	1846	0	0.34	0	68.4	61.7	49.7
9-10 PM	1792	0.0	3000	1792	0	0.34	0	68.5	61.7	49.7
10-11 PM	1468	0.0	3000	1468	0	0.34	0	68.9	61.9	49.7
11PM-MID	1061	0.0	3000	1061	0	0.35	0	69.4	62.2	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	0.0313
MAIN ROUTE WITH WORKS	0.0255
'DIVERSION'	0.0054

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$106,953
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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

