

IH 94: MN 96 TO STH 35 N CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	739	0.0	3000	739	0	0.18	0	69.8	57.8	49.7
1-2 AM	552	0.0	3000	552	0	0.18	0	70.0	57.8	49.7
2-3 AM	503	0.0	3000	503	0	0.18	0	70.1	57.8	49.7
3-4 AM	497	0.0	3000	497	0	0.18	0	70.1	57.9	49.7
4-5 AM	605	0.0	3000	605	0	0.18	0	70.0	57.8	49.7
5-6 AM	791	0.0	3000	791	0	0.18	0	69.7	57.8	49.7
6-7 AM	954	0.0	3000	954	0	0.18	0	69.6	57.7	49.7
7-8 AM	1418	0.0	3000	1418	0	0.17	0	69.0	57.4	49.7
8-9 AM	1926	0.0	3000	1926	0	0.17	0	68.3	57.3	49.7
9-10 AM	2678	0.0	2999	2678	0	0.26	0	67.4	52.2	43.2
10-11 AM	3197	0.0	2999	3197	0	1.47	77	66.8	25.5	37.3
11AM-NOON	3354	0.0	3000	3354	0	7.00	376	66.6	11.0	37.3
NOON-1PM	3130	0.0	2999	3130	0	11.71	626	66.8	9.1	37.3
1-2 PM	3041	0.0	2999	3041	0	13.08	700	66.9	8.8	37.3
2-3 PM	3168	0.0	3000	3168	0	14.88	800	66.8	8.5	37.3
3-4 PM	3206	0.0	3000	3206	0	18.28	988	66.8	8.1	37.3
4-5 PM	3312	0.0	3000	3312	0	23.19	1259	66.6	7.7	37.3
5-6 PM	2942	0.0	2999	2942	0	25.84	1403	67.1	7.6	37.3
6-7 PM	2512	0.0	2999	2512	0	20.73	1124	67.6	7.9	37.3
7-8 PM	2356	0.0	2999	2356	0	10.04	558	67.8	9.8	39.2
8-9 PM	1924	0.0	3000	1924	0	0.34	23	68.4	49.6	49.7
9-10 PM	1737	0.0	3000	1737	0	0.17	0	68.6	57.3	49.7
10-11 PM	1312	0.0	3000	1312	0	0.17	0	69.1	57.5	49.7
11PM-MID	847	0.0	3000	847	0	0.18	0	69.7	57.7	49.7

----- 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	0.0074
MAIN ROUTE WITH WORKS	0.0024
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS

ROAD USER COSTS PER DAY	\$124,108
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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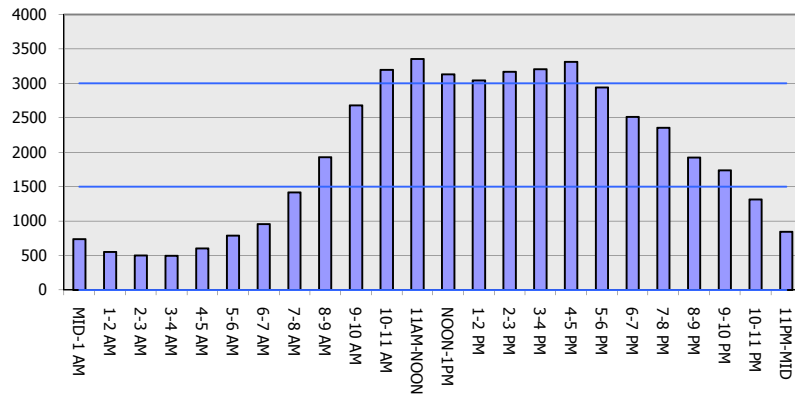
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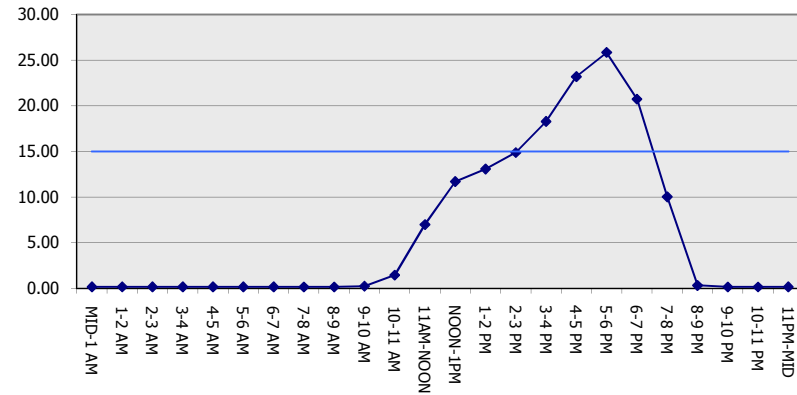
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY WESTBOUND DIRECTION

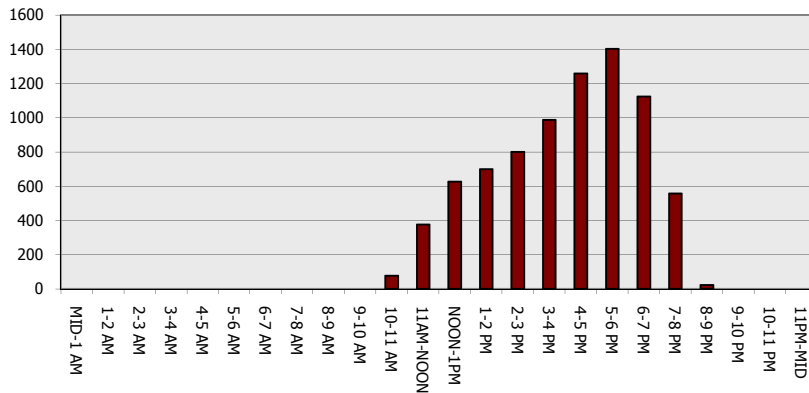
Main Route - Traffic Demand (Vehicles Per Hour)



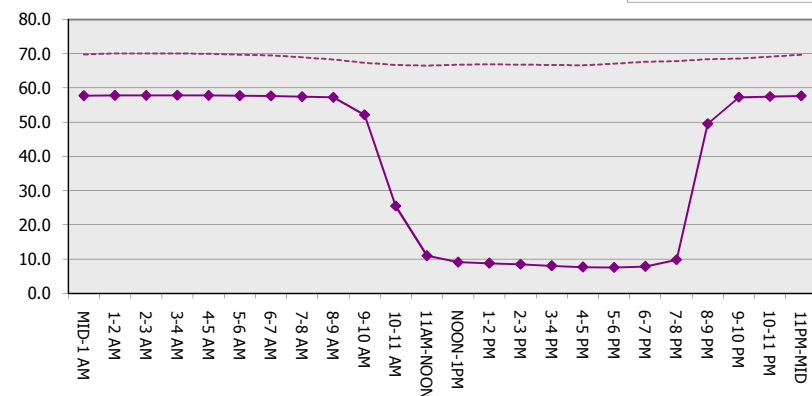
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

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	784	0.0	3000	784	0	0.18	0	69.7	57.8	49.7
1-2 AM	498	0.0	3000	498	0	0.18	0	70.1	57.9	49.7
2-3 AM	380	0.0	3000	380	0	0.18	0	70.2	57.9	49.7
3-4 AM	406	0.0	3000	406	0	0.18	0	70.2	57.9	49.7
4-5 AM	512	0.0	3000	512	0	0.18	0	70.1	57.8	49.7
5-6 AM	766	0.0	3000	766	0	0.18	0	69.8	57.8	49.7
6-7 AM	1306	0.0	3000	1306	0	0.18	0	69.1	57.5	49.7
7-8 AM	2031	0.0	3000	2031	0	0.17	0	68.2	57.2	49.7
8-9 AM	2756	0.0	2999	2756	0	0.28	0	67.3	51.0	41.7
9-10 AM	3475	0.0	2999	3475	0	3.32	203	66.4	16.5	37.3
10-11 AM	3841	0.0	3000	3841	0	16.08	887	64.6	8.4	37.3
11AM-NOON	3723	0.0	2999	3723	0	30.92	1692	65.5	7.3	37.3
NOON-1PM	3371	0.0	2999	3371	0	40.98+	2240	66.6	7.1	37.3
1-2 PM	3224	0.0	2999	3224	0	46.23+	2528	66.8	7.0	37.3
2-3 PM	3183	0.0	2999	2980	203	47.44+	2594	66.8	7.0	37.3
3-4 PM	3086	0.0	2999	2988	98	47.38+	2590	66.9	7.0	37.3
4-5 PM	3097	0.0	2999	2991	106	47.38+	2591	66.9	7.0	37.3
5-6 PM	2825	0.0	2999	2825	0	46.27+	2528	67.3	7.0	37.3
6-7 PM	2370	0.0	2999	2370	0	39.02+	2128	67.8	7.1	37.3
7-8 PM	2025	0.0	2999	2025	0	24.25	1323	68.2	7.7	37.4
8-9 PM	1659	0.0	2999	1659	0	1.61	260	68.7	29.7	48.6
9-10 PM	1403	0.0	3000	1403	0	0.17	0	69.0	57.4	49.7
10-11 PM	1171	0.0	3000	1171	0	0.18	0	69.3	57.6	49.7
11PM-MID	859	0.0	3000	859	0	0.18	0	69.7	57.7	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	0.0078
MAIN ROUTE WITH WORKS	0.0025
'DIVERSION'	0.0002

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$335,874
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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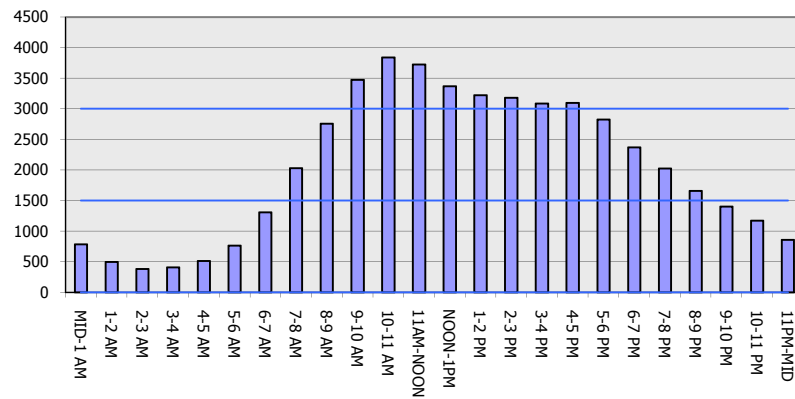
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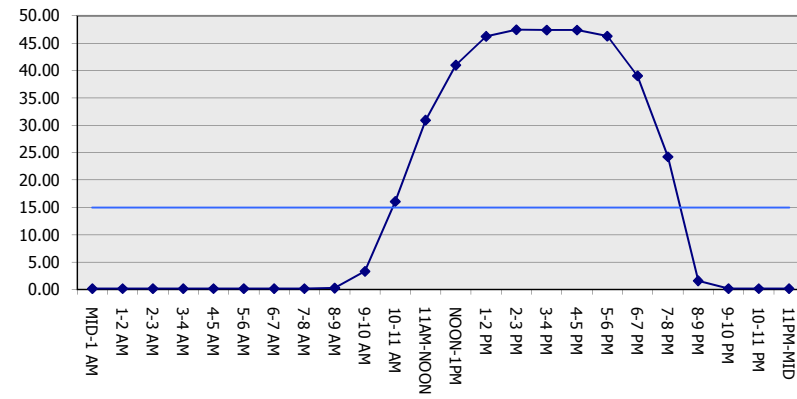
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY EASTBOUND DIRECTION

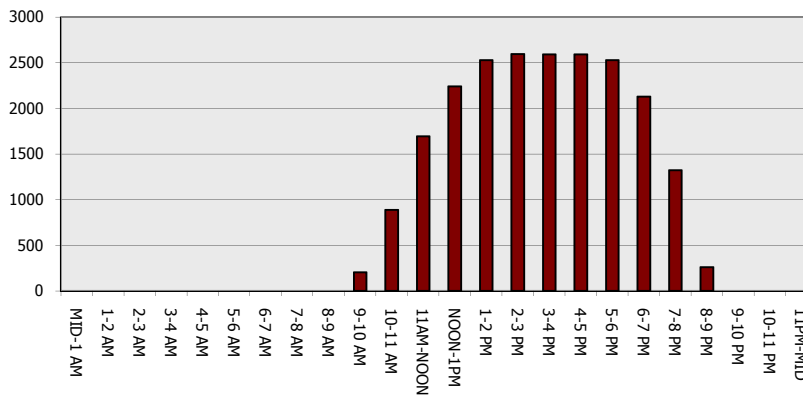
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

