

IH 94: MN 96 TO STH 35 N CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	752	0.0	3000	752	0	0.18	0	69.8	57.8	49.7	
1-2 AM	701	0.0	3000	701	0	0.18	0	69.9	57.8	49.7	
2-3 AM	681	0.0	3000	681	0	0.18	0	69.9	57.8	49.7	
3-4 AM	773	0.0	3000	773	0	0.18	0	69.8	57.8	49.7	
4-5 AM	1264	0.0	3000	1264	0	0.18	0	69.2	57.5	49.7	
5-6 AM	2171	0.0	3000	2171	0	0.17	0	68.1	57.1	49.7	
6-7 AM	2902	0.0	3000	2902	0	0.34	0	67.1	48.7	38.8	
7-8 AM	2883	0.0	3000	2883	0	0.33	0	67.1	49.0	39.1	
8-9 AM	2645	0.0	3000	2645	0	0.25	0	67.4	52.6	43.5	
9-10 AM	2735	0.0	3000	2735	0	0.28	0	67.3	51.2	41.7	
10-11 AM	2838	0.0	2999	2838	0	0.31	0	67.2	49.7	39.9	
11AM-NOON	3095	0.0	2999	3095	0	0.77	27	66.9	36.1	37.3	
NOON-1PM	3463	0.0	3000	3463	0	5.41	301	66.4	12.5	37.3	
1-2 PM	3870	0.0	3000	3870	0	17.69	975	64.4	8.2	37.3	
2-3 PM	3990	0.0	3000	3990	0	34.73+	1911	63.6	7.2	37.3	
3-4 PM	4232	0.0	2999	3304	927	48.54+	2679	61.9	7.0	37.3	
4-5 PM	4278	0.0	2999	2976	1301	49.07+	2711	61.6	6.9	37.3	
5-6 PM	4095	0.0	2999	2910	1185	48.31+	2662	62.9	7.0	37.3	
6-7 PM	3567	0.0	2999	2984	584	47.65+	2608	66.3	7.0	37.3	
7-8 PM	2961	0.0	2999	2921	40	47.02+	2570	67.1	7.0	37.3	
8-9 PM	2696	0.0	2999	2696	0	43.63+	2382	67.4	7.0	37.3	
9-10 PM	2291	0.0	2999	2291	0	34.53	1882	67.9	7.2	37.3	
10-11 PM	1832	0.0	2999	1832	0	16.93	951	68.4	8.4	41.2	
11PM-MID	1195	0.0	3000	1195	0	0.35	33	69.2	49.8	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	0.0099
MAIN ROUTE WITH WORKS	0.0029
'DIVERSION'	0.0015
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$320,232
CONGESTED HOURS PER DAY*	7

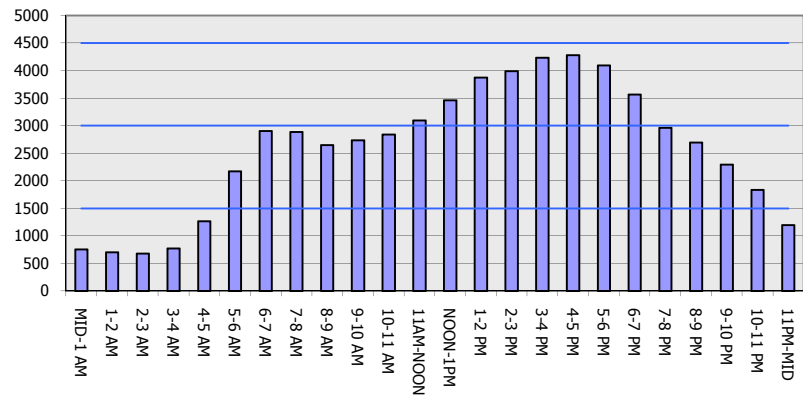
*Delays Exceeding User-Specified Maximum

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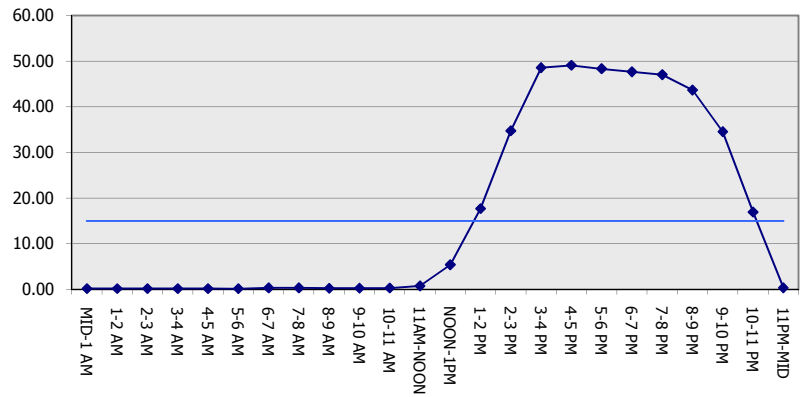
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION

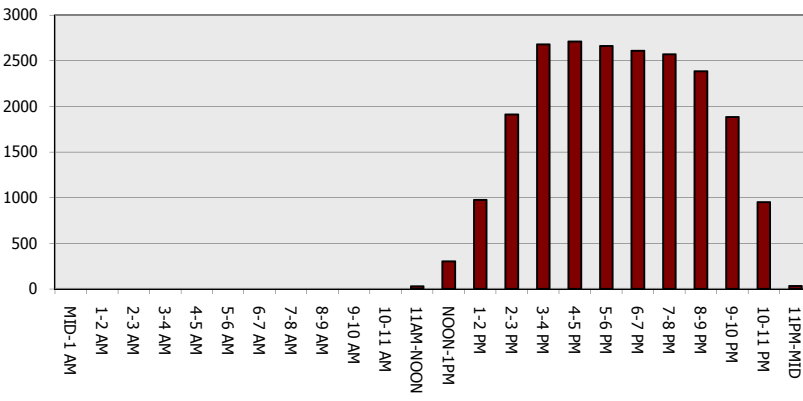
Main Route - Traffic Demand (Vehicles Per Hour)



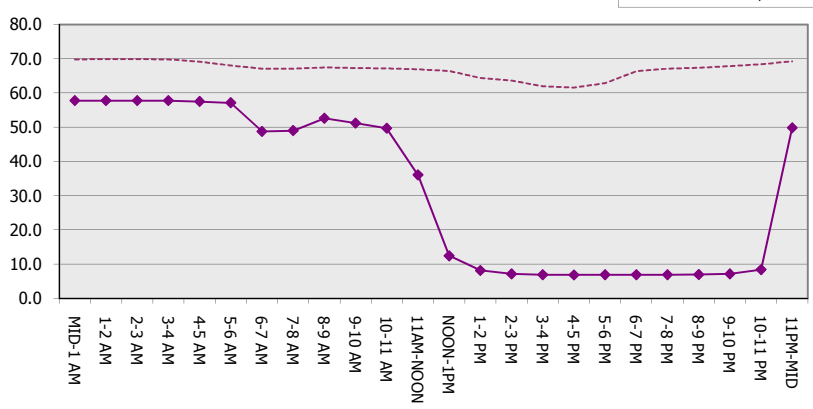
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	726	0.0	3000	726	0	0.18	0	69.8	57.8	49.7
1-2 AM	472	0.0	3000	472	0	0.18	0	70.2	57.9	49.7
2-3 AM	461	0.0	3000	461	0	0.18	0	70.2	57.9	49.7
3-4 AM	448	0.0	3000	448	0	0.18	0	70.2	57.9	49.7
4-5 AM	667	0.0	3000	667	0	0.18	0	69.9	57.8	49.7
5-6 AM	1034	0.0	3000	1034	0	0.18	0	69.4	57.6	49.7
6-7 AM	1745	0.0	3000	1745	0	0.17	0	68.6	57.3	49.7
7-8 AM	2615	0.0	2999	2615	0	0.24	0	67.5	53.2	44.5
8-9 AM	2950	0.0	2999	2950	0	0.49	10	67.1	43.2	38.8
9-10 AM	3681	0.0	3000	3681	0	5.83	347	65.7	12.4	37.3
10-11 AM	4076	0.0	3000	4076	0	22.45	1242	63.0	7.8	37.3
11AM-NOON	4248	0.0	3000	4015	233	42.54+	2350	61.9	7.0	37.3
NOON-1PM	4511	0.0	3000	3019	1492	50.43+	2796	60.1	6.9	37.3
1-2 PM	5189	0.0	3000	3000	2189	51.01+	2859	55.4	6.9	37.3
2-3 PM	5228	0.0	3000	3000	2228	50.98+	2859	55.1	6.9	37.3
3-4 PM	5748	0.0	3000	3001	2747	50.48+	2859	51.6	6.9	37.3
4-5 PM	5857	0.0	3000	3000	2857	50.36+	2859	50.9	6.9	37.3
5-6 PM	5624	0.0	3000	3000	2624	50.60+	2859	52.4	6.9	37.3
6-7 PM	5397	0.0	3000	3000	2397	50.82+	2859	54.0	6.9	37.3
7-8 PM	3753	0.0	3000	2707	1046	48.94+	2685	65.2	7.0	37.3
8-9 PM	2515	0.0	3000	2515	0	43.17+	2357	67.6	7.0	37.3
9-10 PM	1858	0.0	3000	1858	0	27.76	1515	68.4	7.5	37.3
10-11 PM	1526	0.0	2999	1526	0	1.79	298	68.8	28.8	48.6
11PM-MID	1146	0.0	3000	1146	0	0.18	0	69.3	57.6	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	0.0114
MAIN ROUTE WITH WORKS	0.0027
'DIVERSION'	0.0066
<small>PIA: Personal Injury Accidents</small>	
ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$589,114
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

