

IH 94: STH 181 TO USH 41 (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	895	0.0	3000	895	0	0.35	0	69.6	59.5	49.7
1-2 AM	657	0.0	3000	657	0	0.36	0	69.9	59.6	49.7
2-3 AM	542	0.0	3000	542	0	0.36	0	70.0	59.7	49.7
3-4 AM	462	0.0	3000	462	0	0.36	0	70.2	59.7	49.7
4-5 AM	774	0.0	3000	774	0	0.35	0	69.8	59.6	49.7
5-6 AM	2168	0.0	2999	2168	0	0.41	0	68.1	56.9	46.8
6-7 AM	4492	0.0	2999	3997	495	8.71+	545	60.2	15.0	37.3
7-8 AM	5969	0.0	3000	3000	2970	16.56+	932	50.1	10.4	37.3
8-9 AM	5015	0.0	2999	2945	2070	16.98+	928	56.6	10.4	37.3
9-10 AM	4031	0.0	2999	2947	1084	16.68+	889	63.3	10.6	37.3
10-11 AM	4112	0.0	2999	3002	1110	16.60+	886	62.8	10.6	37.3
11AM-NOON	4761	0.0	2999	3032	1729	17.09+	928	58.3	10.4	37.3
NOON-1PM	5071	0.0	3000	3000	2071	17.03+	932	56.2	10.4	37.3
1-2 PM	5331	0.0	3000	3000	2331	16.91+	932	54.5	10.4	37.3
2-3 PM	6202	0.0	3000	3000	3202	16.42+	932	48.5	10.4	37.3
3-4 PM	6154	0.0	3000	3000	3154	16.45+	932	48.8	10.4	37.3
4-5 PM	5847	0.0	3000	3000	2847	16.63+	932	50.9	10.4	37.3
5-6 PM	4732	0.0	2999	3003	1729	17.13+	929	58.5	10.4	37.3
6-7 PM	4606	0.0	2999	2985	1621	17.09+	924	59.4	10.5	37.3
7-8 PM	3302	0.0	3000	2944	358	16.54+	872	66.6	10.7	37.3
8-9 PM	2594	0.0	2999	2594	0	12.66+	665	67.5	12.0	37.3
9-10 PM	2932	0.0	3000	2932	0	8.24	413	67.1	14.6	37.3
10-11 PM	2681	0.0	2999	2681	0	4.82	248	67.4	20.7	38.8
11PM-MID	2095	0.0	3000	2095	0	0.38	2	68.1	57.8	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	0.0326
MAIN ROUTE WITH WORKS	0.0185
'DIVERSION'	0.0237
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$271,890
CONGESTED HOURS PER DAY*	15

*Delays Exceeding User-Specified Maximum

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CONTINUOUS (24 HOUR) CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

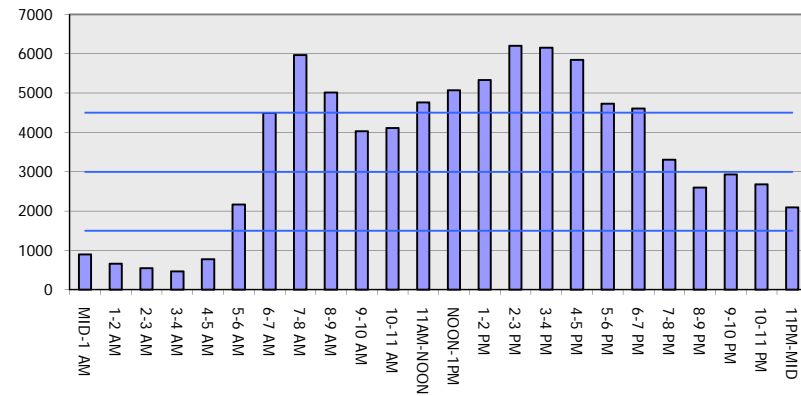
OCTOBER

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Construction Season

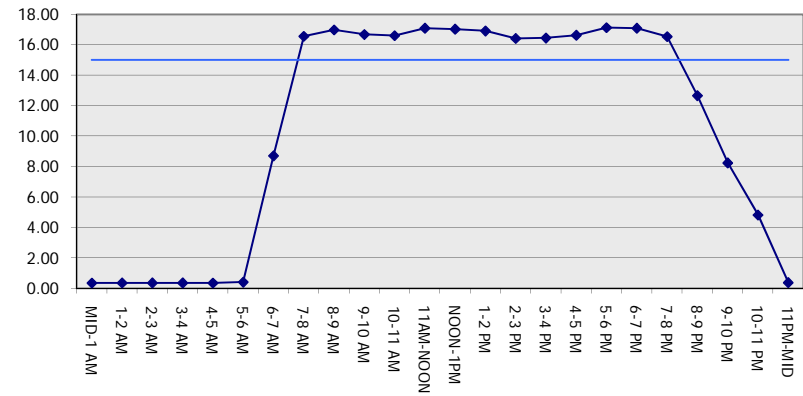
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY WESTBOUND DIRECTION

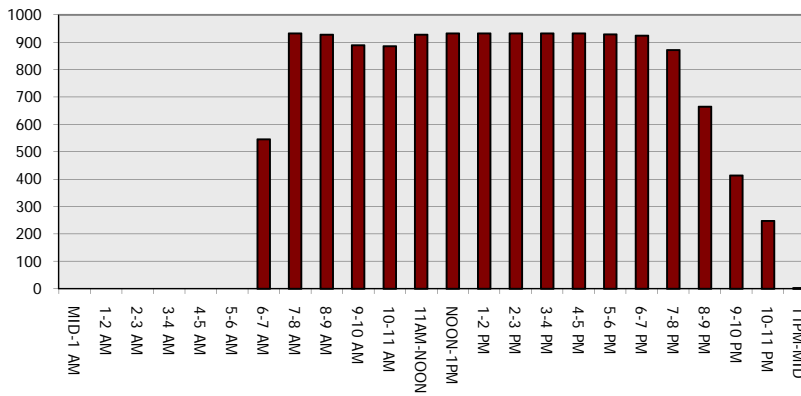
Main Route - Traffic Demand (Vehicles Per Hour)



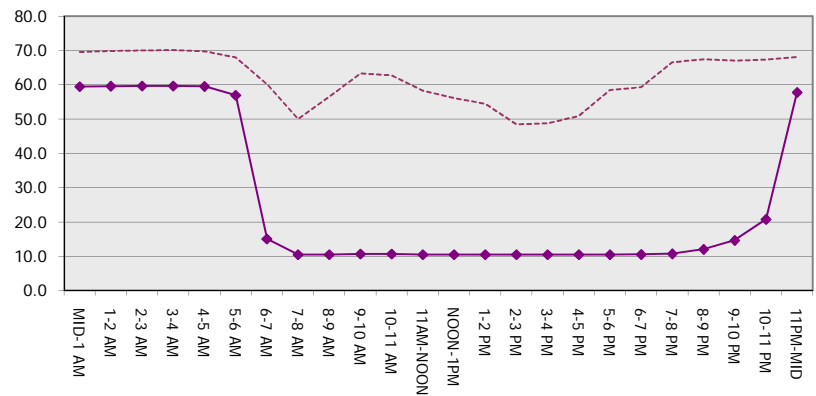
Main Route Average Delay Per Vehicle (Minutes)



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	872	0.0	3000	872	0	0.35	0	69.7	59.5	49.7	
1-2 AM	476	0.0	3000	476	0	0.36	0	70.1	59.7	49.7	
2-3 AM	397	0.0	3000	397	0	0.36	0	70.2	59.7	49.7	
3-4 AM	350	0.0	3000	350	0	0.36	0	70.2	59.7	49.7	
4-5 AM	576	0.0	3000	576	0	0.36	0	70.0	59.6	49.7	
5-6 AM	2348	0.0	2999	2348	0	0.51	0	67.8	54.7	43.7	
6-7 AM	5570	0.0	2999	4042	1528	12.67+	727	52.8	11.8	37.3	
7-8 AM	6230	0.0	3000	3000	3230	16.40+	932	48.3	10.4	37.3	
8-9 AM	5123	0.0	2999	2912	2211	16.88+	925	55.8	10.4	37.3	
9-10 AM	4393	0.0	2999	2944	1449	17.00+	914	60.9	10.5	37.3	
10-11 AM	4143	0.0	2999	2988	1156	16.60+	887	62.5	10.6	37.3	
11AM-NOON	4328	0.0	2999	3024	1303	16.78+	900	61.3	10.6	37.3	
NOON-1PM	4710	0.0	2999	3015	1695	17.16+	930	58.7	10.4	37.3	
1-2 PM	4684	0.0	3000	3007	1676	17.18+	931	58.9	10.4	37.3	
2-3 PM	5257	0.0	3000	3000	2257	16.94+	932	55.0	10.4	37.3	
3-4 PM	5497	0.0	3000	3000	2497	16.82+	932	53.3	10.4	37.3	
4-5 PM	5350	0.0	3000	3000	2350	16.90+	932	54.3	10.4	37.3	
5-6 PM	5462	0.0	3000	3000	2462	16.84+	932	53.5	10.4	37.3	
6-7 PM	5181	0.0	3000	3000	2181	16.98+	932	55.5	10.4	37.3	
7-8 PM	4143	0.0	3000	2971	1173	16.78+	897	62.5	10.6	37.3	
8-9 PM	3205	0.0	2999	2975	230	16.57+	873	66.8	10.7	37.3	
9-10 PM	3389	0.0	2999	3000	389	16.61+	876	66.5	10.7	37.3	
10-11 PM	2940	0.0	3000	2890	50	16.11+	848	67.1	10.8	37.3	
11PM-MID	2122	0.0	2999	2122	0	5.13	398	68.1	21.5	43.5	

+ 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	0.0331
MAIN ROUTE WITH WORKS	0.0186
'DIVERSION'	0.0246

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$299,850
CONGESTED HOURS PER DAY*	17

*Delays Exceeding User-Specified Maximum

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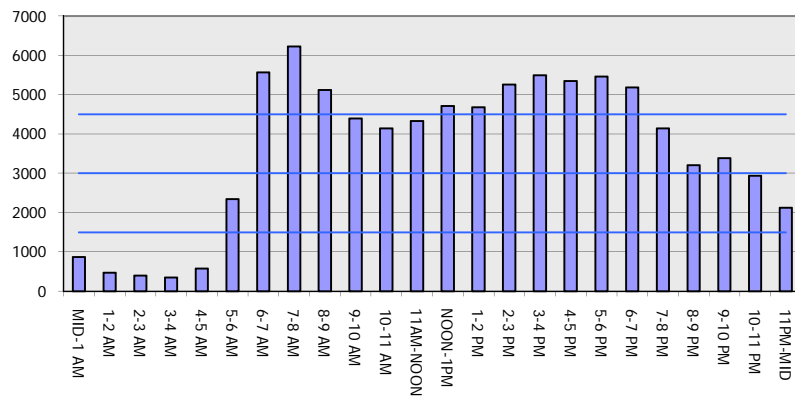
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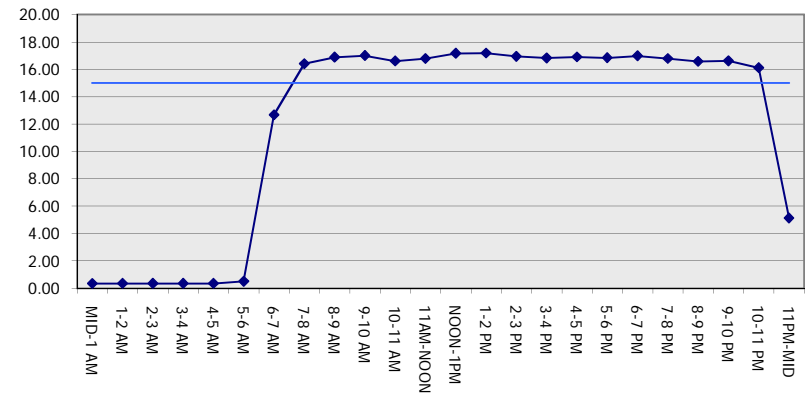
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY EASTBOUND DIRECTION

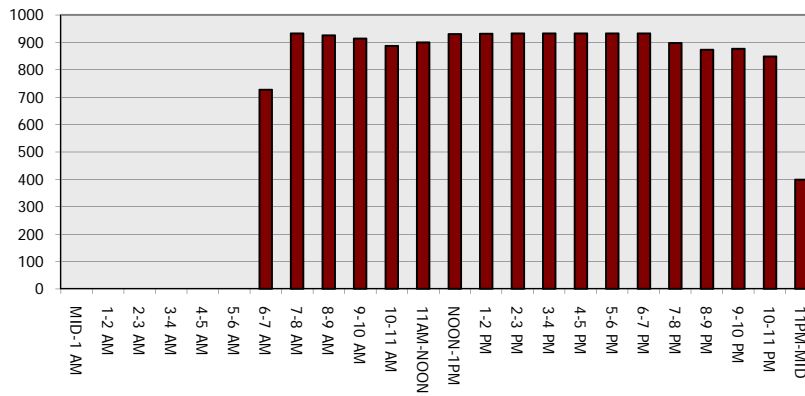
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

