

USH 45: STH 190 TO NORTH AVE (MILWAUKEE COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY SOUTHBOUND 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	481	0.0	2000	481	0	0.59	3	70.1	52.8	43.6
1-2 AM	324	0.0	2000	324	0	0.51	0	70.2	54.6	44.2
2-3 AM	301	0.0	2000	301	0	0.51	0	70.2	54.6	44.3
3-4 AM	336	0.0	2000	336	0	0.51	0	70.2	54.6	44.2
4-5 AM	813	0.0	2000	813	0	0.57	0	69.7	53.1	42.4
5-6 AM	2265	0.0	1999	2265	0	2.72	94	67.9	27.6	27.9
6-7 AM	4721	0.0	1999	2042	2679	17.13+	576	58.6	8.3	28.0
7-8 AM	5771	0.0	1999	2000	3771	16.84+	580	51.4	8.3	28.1
8-9 AM	5316	0.0	2000	2001	3315	17.02+	580	54.5	8.3	28.1
9-10 AM	4655	0.0	2000	2039	2617	17.15+	576	59.1	8.3	27.9
10-11 AM	4691	0.0	1999	2003	2688	17.25+	580	58.8	8.3	27.9
11AM-NOON	4882	0.0	2000	2000	2882	17.19+	580	57.5	8.3	27.9
NOON-1PM	4969	0.0	2000	2000	2969	17.16+	580	56.9	8.3	27.9
1-2 PM	5002	0.0	1999	2000	3002	17.15+	580	56.7	8.3	27.9
2-3 PM	5338	0.0	2000	2000	3338	17.03+	580	54.4	8.3	27.9
3-4 PM	4390	0.0	2000	2027	2362	17.26+	577	60.9	8.3	27.9
4-5 PM	3607	0.0	2000	2062	1545	17.35+	572	66.2	8.3	27.9
5-6 PM	3916	0.0	2000	2003	1913	17.48+	580	64.1	8.3	27.9
6-7 PM	4425	0.0	2000	2000	2425	17.34+	580	60.6	8.3	27.9
7-8 PM	3414	0.0	2000	2011	1403	17.33+	571	66.5	8.3	27.9
8-9 PM	2622	0.0	2000	1999	623	17.11+	562	67.5	8.4	27.9
9-10 PM	2324	0.0	2000	1999	325	17.10+	561	67.9	8.4	27.9
10-11 PM	1978	0.0	2000	1943	35	16.73+	548	68.2	8.4	27.9
11PM-MID	1588	0.0	1999	1588	0	10.34	347	68.7	11.2	27.9

+ 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	0.0261
MAIN ROUTE WITH WORKS	0.0108
'DIVERSION'	0.0293
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$281,599
CONGESTED HOURS PER DAY*	17

*Delays Exceeding User-Specified Maximum

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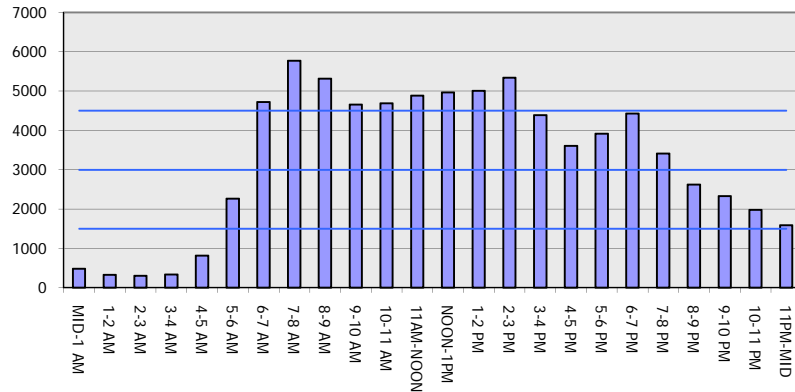
AUGUST

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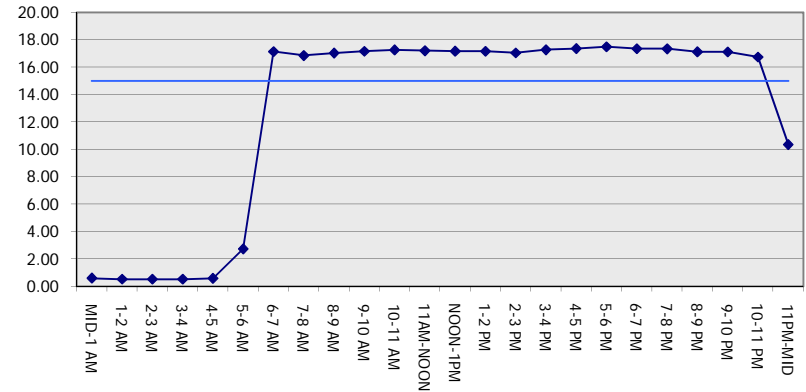
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY SOUTHBOUND DIRECTION

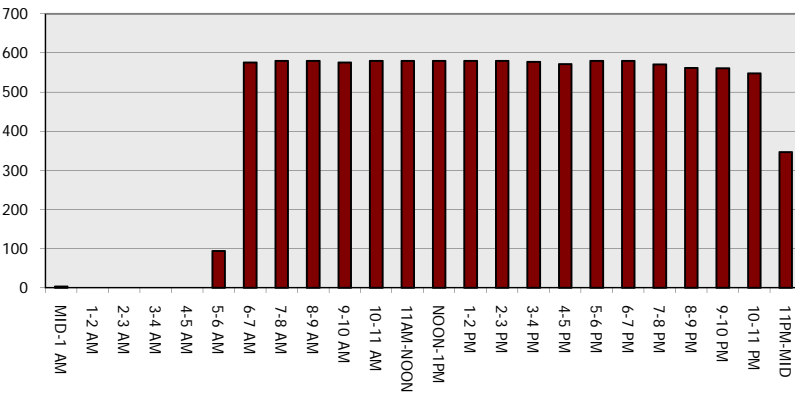
Main Route - Traffic Demand (Vehicles Per Hour)



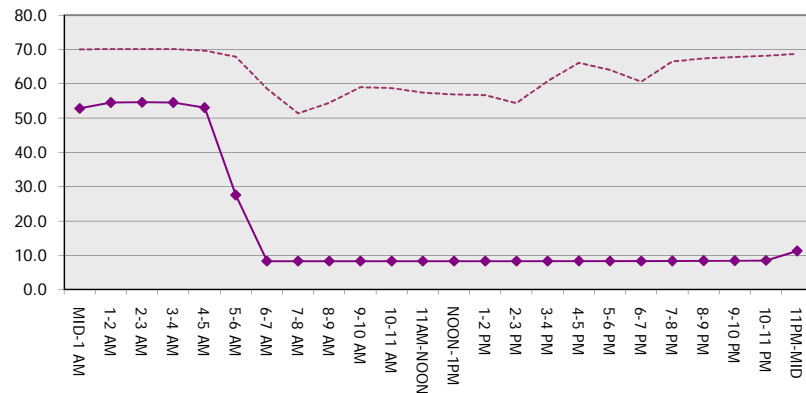
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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FRIDAY NORTHBOUND 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	772	0.0	2000	772	0	1.71	111	69.8	36.2	39.4
1-2 AM	554	0.0	2000	554	0	0.54	0	70.0	53.9	43.3
2-3 AM	491	0.0	2000	491	0	0.53	0	70.1	54.1	43.5
3-4 AM	475	0.0	2000	475	0	0.53	0	70.1	54.2	43.6
4-5 AM	1263	0.0	1999	1263	0	0.86	0	69.2	46.9	35.5
5-6 AM	3133	0.0	1999	2584	549	9.21+	347	66.8	12.6	27.9
6-7 AM	5280	0.0	2000	2000	3280	17.05+	580	54.8	8.3	27.9
7-8 AM	6227	0.0	2000	2000	4227	16.65+	580	48.3	8.3	27.9
8-9 AM	5211	0.0	2000	2000	3211	17.08+	580	55.3	8.3	27.9
9-10 AM	4385	0.0	2000	2000	2385	17.36+	580	60.9	8.3	27.9
10-11 AM	4516	0.0	2000	2000	2516	17.31+	580	60.0	8.3	27.9
11AM-NOON	4834	0.0	2000	2000	2834	17.21+	580	57.8	8.3	27.9
NOON-1PM	4993	0.0	2000	2000	2993	17.16+	580	56.8	8.3	27.9
1-2 PM	5305	0.0	2000	2000	3305	17.04+	580	54.6	8.3	27.9
2-3 PM	6008	0.0	2000	2000	4008	16.75+	580	49.8	8.3	27.9
3-4 PM	6248	0.0	2000	2000	4248	16.64+	580	48.2	8.3	27.9
4-5 PM	6497	0.0	2000	2000	4497	16.51+	580	46.5	8.3	27.9
5-6 PM	5747	0.0	2000	2000	3747	16.87+	580	51.6	8.3	27.9
6-7 PM	4931	0.0	2000	2000	2931	17.18+	580	57.2	8.3	27.9
7-8 PM	3593	0.0	2000	1991	1602	17.45+	576	66.3	8.3	27.9
8-9 PM	3127	0.0	1999	1993	1133	17.16+	564	66.8	8.3	27.9
9-10 PM	3098	0.0	1999	1998	1101	17.13+	563	66.9	8.3	27.9
10-11 PM	2921	0.0	1999	1999	922	17.12+	562	67.1	8.3	27.9
11PM-MID	2099	0.0	2000	1915	184	16.55+	542	68.1	8.5	27.9

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0307
MAIN ROUTE WITH WORKS	0.0113
'DIVERSION'	0.0385

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$330,047
CONGESTED HOURS PER DAY*	19

*Delays Exceeding User-Specified Maximum

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