

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

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	900	0.0	3000	900	0	0.35	0	69.6	58.2	49.7
1-2 AM	491	0.0	3000	491	0	0.36	0	70.1	58.4	49.7
2-3 AM	478	0.0	3000	478	0	0.36	0	70.1	58.4	49.7
3-4 AM	349	0.0	3000	349	0	0.36	0	70.2	58.5	49.7
4-5 AM	474	0.0	3000	474	0	0.36	0	70.2	58.4	49.7
5-6 AM	906	0.0	3000	906	0	0.35	0	69.6	58.2	49.7
6-7 AM	1845	0.0	3000	1845	0	0.34	0	68.4	57.8	49.7
7-8 AM	2484	0.0	2999	2484	0	0.42	0	67.6	55.3	46.4
8-9 AM	3295	0.0	2999	3295	0	2.45	117	66.6	29.0	37.3
9-10 AM	3459	0.0	2999	3459	0	9.54	501	66.4	13.1	37.3
10-11 AM	4030	0.0	2999	3148	881	16.83+	897	63.3	10.2	37.3
11AM-NOON	4633	0.0	3000	3042	1592	17.44+	943	59.2	10.0	37.3
NOON-1PM	4724	0.0	3000	3001	1724	17.58+	953	58.6	10.0	37.3
1-2 PM	4384	0.0	3000	2979	1406	17.25+	927	60.9	10.1	37.3
2-3 PM	4629	0.0	2999	3028	1602	17.54+	949	59.2	10.0	37.3
3-4 PM	4460	0.0	3000	2984	1476	17.36+	935	60.4	10.1	37.3
4-5 PM	4713	0.0	2999	3011	1702	17.55+	951	58.7	10.0	37.3
5-6 PM	4111	0.0	3000	2958	1154	16.94+	904	62.8	10.2	37.3
6-7 PM	3886	0.0	2999	2995	891	16.81+	893	64.3	10.2	37.3
7-8 PM	2980	0.0	3000	2881	99	16.37+	862	67.0	10.4	37.3
8-9 PM	2194	0.0	2999	2194	0	5.97	403	68.0	18.3	43.3
9-10 PM	2127	0.0	3000	2127	0	0.33	0	68.1	57.7	49.7
10-11 PM	1894	0.0	3000	1894	0	0.34	0	68.4	57.8	49.7
11PM-MID	1314	0.0	3000	1314	0	0.35	0	69.1	58.1	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	0.0216
MAIN ROUTE WITH WORKS	0.0140
'DIVERSION'	0.0097
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$221,869
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

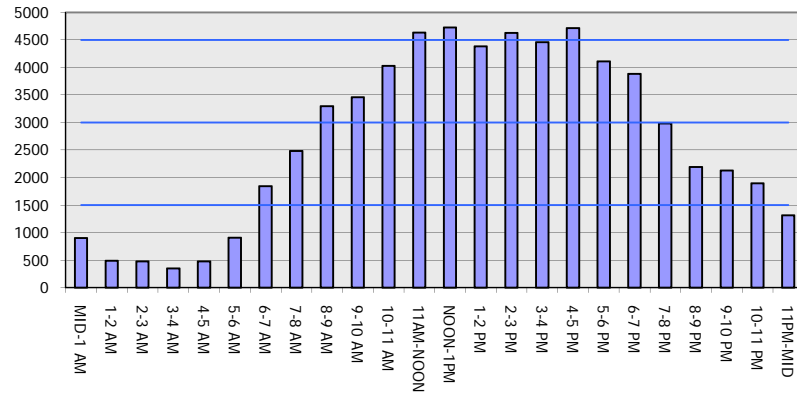
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CONTINUOUS (24 HOUR) CLOSURE
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OCTOBER

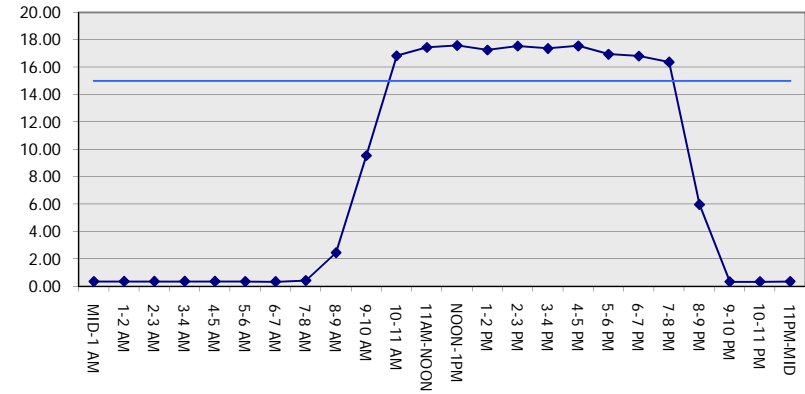
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION

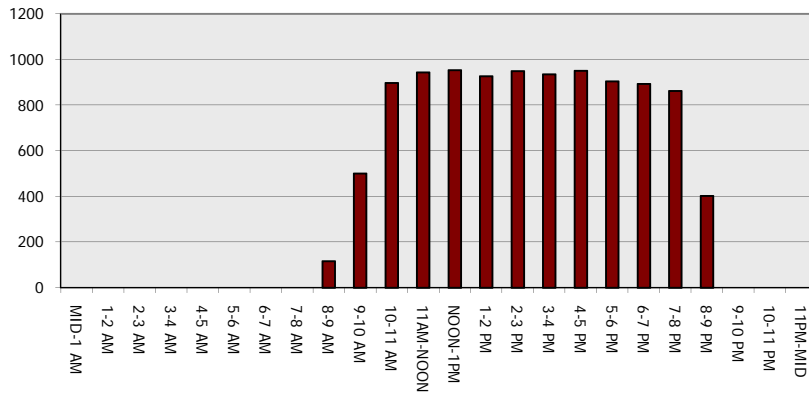
Main Route - Traffic Demand (Vehicles Per Hour)



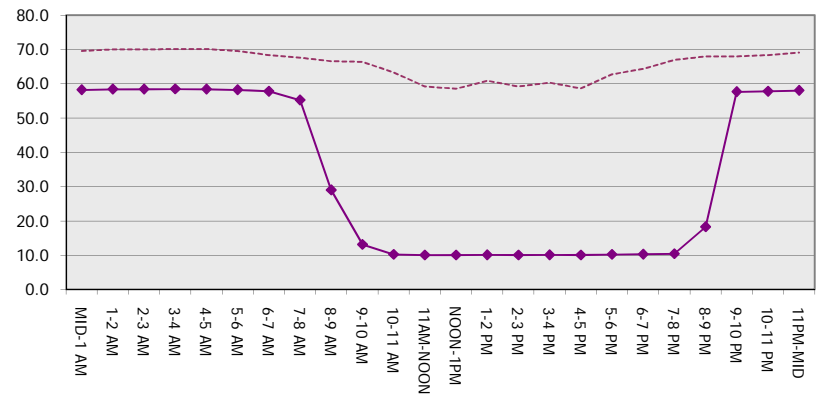
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	1256	0.0	3000	1256	0	0.35	0	69.2	58.1	49.7
1-2 AM	895	0.0	3000	895	0	0.35	0	69.6	58.2	49.7
2-3 AM	836	0.0	3000	836	0	0.35	0	69.7	58.3	49.7
3-4 AM	681	0.0	3000	681	0	0.36	0	69.9	58.4	49.7
4-5 AM	839	0.0	3000	839	0	0.35	0	69.7	58.3	49.7
5-6 AM	1357	0.0	3000	1357	0	0.34	0	69.1	58.1	49.7
6-7 AM	1928	0.0	3000	1928	0	0.34	0	68.3	57.8	49.7
7-8 AM	2522	0.0	2999	2522	0	0.42	0	67.6	55.3	46.4
8-9 AM	3118	0.0	2999	3118	0	1.22	35	66.9	40.6	37.6
9-10 AM	3826	0.0	3000	3826	0	9.14+	517	64.7	13.7	37.3
10-11 AM	4259	0.0	2999	2952	1306	17.10+	916	61.8	10.1	37.3
11AM-NOON	4334	0.0	3000	3004	1330	17.12+	919	61.2	10.1	37.3
NOON-1PM	4494	0.0	2999	3015	1480	17.36+	936	60.2	10.1	37.3
1-2 PM	4335	0.0	3000	2985	1350	17.16+	921	61.2	10.1	37.3
2-3 PM	4736	0.0	2999	3015	1721	17.53+	951	58.5	10.0	37.3
3-4 PM	4465	0.0	3000	2993	1472	17.35+	935	60.4	10.1	37.3
4-5 PM	4466	0.0	2999	2998	1468	17.35+	934	60.4	10.1	37.3
5-6 PM	4065	0.0	3000	2973	1092	16.90+	901	63.1	10.2	37.3
6-7 PM	3428	0.0	3000	2994	434	16.84+	888	66.4	10.2	37.3
7-8 PM	3061	0.0	2999	2968	92	16.74+	882	66.9	10.2	37.3
8-9 PM	2472	0.0	2999	2472	0	11.65+	618	67.7	12.0	37.7
9-10 PM	2445	0.0	3000	2445	0	1.46	100	67.7	38.0	44.8
10-11 PM	2492	0.0	3000	2492	0	0.40	0	67.6	55.8	47.0
11PM-MID	1887	0.0	3000	1887	0	0.34	0	68.4	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	0.0228
MAIN ROUTE WITH WORKS	0.0151
'DIVERSION'	0.0091

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$221,958
CONGESTED HOURS PER DAY*	12

*Delays Exceeding User-Specified Maximum

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SATURDAY NORTHBOUND DIRECTION

