

USH 45: STH 145 TO CTH E (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	548	0.0	3000	548	0	0.36	0	70.0	59.3	49.7
1-2 AM	329	0.0	3000	329	0	0.36	0	70.2	59.3	49.7
2-3 AM	251	0.0	3000	251	0	0.36	0	70.2	59.3	49.7
3-4 AM	280	0.0	3000	280	0	0.36	0	70.2	59.3	49.7
4-5 AM	380	0.0	3000	380	0	0.36	0	70.2	59.3	49.7
5-6 AM	686	0.0	3000	686	0	0.36	0	69.9	59.2	49.7
6-7 AM	1193	0.0	3000	1193	0	0.35	0	69.2	58.9	49.7
7-8 AM	1797	0.0	3000	1797	0	0.34	0	68.5	58.6	49.7
8-9 AM	2362	0.0	3000	2362	0	0.33	0	67.8	58.4	49.7
9-10 AM	2800	0.0	2999	2800	0	0.60	0	67.3	52.1	40.7
10-11 AM	3245	0.0	2999	3245	0	2.40	107	66.7	30.9	37.3
11AM-NOON	3277	0.0	2999	3277	0	7.36	373	66.6	15.3	37.3
NOON-1PM	3533	0.0	3000	3318	214	14.42+	764	66.3	11.2	37.3
1-2 PM	3203	0.0	3000	3023	180	16.64+	877	66.8	10.6	37.3
2-3 PM	3320	0.0	3000	3007	313	16.68+	879	66.6	10.6	37.3
3-4 PM	3348	0.0	3000	3004	343	16.68+	880	66.6	10.6	37.3
4-5 PM	3201	0.0	3000	3002	200	16.67+	879	66.8	10.6	37.3
5-6 PM	2971	0.0	3000	2944	27	16.39+	863	67.1	10.6	37.3
6-7 PM	2529	0.0	2999	2529	0	11.62+	614	67.6	12.4	37.6
7-8 PM	2036	0.0	3000	2036	0	1.02	71	68.2	45.3	49.2
8-9 PM	1611	0.0	3000	1611	0	0.34	0	68.7	58.7	49.7
9-10 PM	1466	0.0	3000	1466	0	0.34	0	68.9	58.8	49.7
10-11 PM	1165	0.0	3000	1165	0	0.35	0	69.3	59.0	49.7
11PM-MID	904	0.0	3000	904	0	0.35	0	69.6	59.1	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	0.0170
MAIN ROUTE WITH WORKS	0.0135
'DIVERSION'	0.0011
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$108,239
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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NO DIVERSION ROUTE (MAX QUEUE METHOD)**

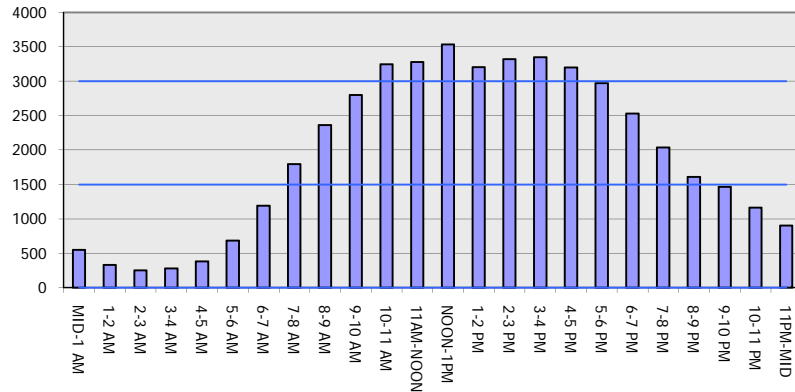
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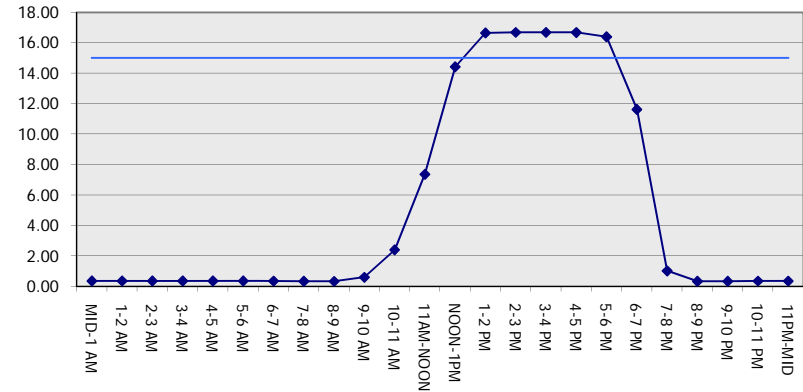
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION

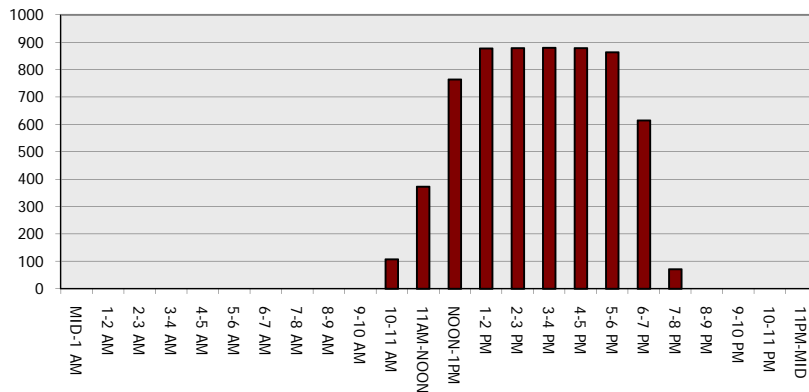
Main Route - Traffic Demand (Vehicles Per Hour)



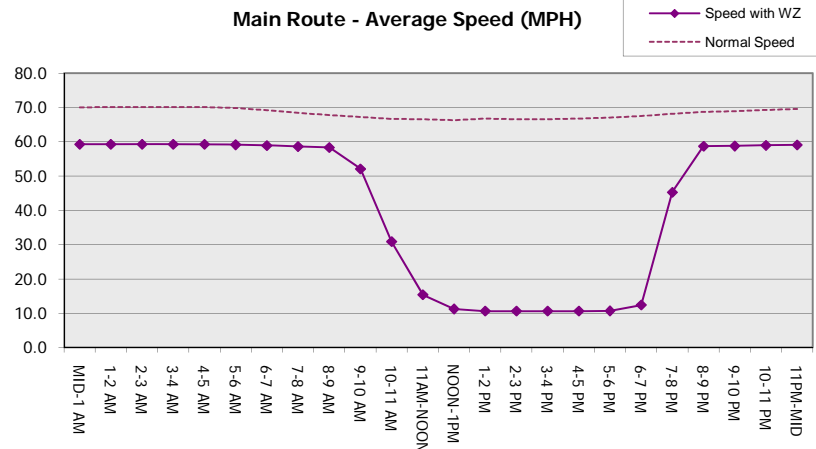
Main Route Average Delay Per Vehicle (Minutes)



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	757	0.0	3000	757	0	0.35	0	69.8	59.2	49.7
1-2 AM	450	0.0	3000	450	0	0.36	0	70.2	59.3	49.7
2-3 AM	394	0.0	3000	394	0	0.36	0	70.2	59.3	49.7
3-4 AM	334	0.0	3000	334	0	0.36	0	70.2	59.3	49.7
4-5 AM	429	0.0	3000	429	0	0.36	0	70.2	59.3	49.7
5-6 AM	774	0.0	3000	774	0	0.35	0	69.8	59.2	49.7
6-7 AM	1202	0.0	3000	1202	0	0.35	0	69.2	58.9	49.7
7-8 AM	1735	0.0	3000	1735	0	0.34	0	68.6	58.7	49.7
8-9 AM	2295	0.0	3000	2295	0	0.33	0	67.9	58.4	49.7
9-10 AM	2653	0.0	2999	2653	0	0.50	0	67.4	54.2	43.5
10-11 AM	3046	0.0	2999	3046	0	0.99	16	66.9	45.3	37.6
11AM-NOON	3367	0.0	3000	3367	0	4.59	236	66.6	20.9	37.3
NOON-1PM	3511	0.0	3000	3511	0	12.96+	688	66.4	11.7	37.3
1-2 PM	3424	0.0	2999	2951	472	16.65+	878	66.5	10.6	37.3
2-3 PM	3441	0.0	2999	2993	448	16.69+	881	66.4	10.5	37.3
3-4 PM	3490	0.0	2999	2996	493	16.70+	881	66.4	10.5	37.3
4-5 PM	3267	0.0	2999	2997	270	16.68+	879	66.7	10.6	37.3
5-6 PM	2949	0.0	2999	2928	22	16.36+	861	67.1	10.6	37.3
6-7 PM	2574	0.0	2999	2574	0	11.85+	622	67.6	12.2	37.3
7-8 PM	2176	0.0	2999	2176	0	1.34	100	68.0	41.0	47.3
8-9 PM	1875	0.0	3000	1875	0	0.34	0	68.4	58.6	49.7
9-10 PM	1764	0.0	3000	1764	0	0.34	0	68.6	58.7	49.7
10-11 PM	1558	0.0	3000	1558	0	0.34	0	68.8	58.7	49.7
11PM-MID	1157	0.0	3000	1157	0	0.35	0	69.3	59.0	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	0.0178
MAIN ROUTE WITH WORKS	0.0141
'DIVERSION'	0.0014

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$106,056
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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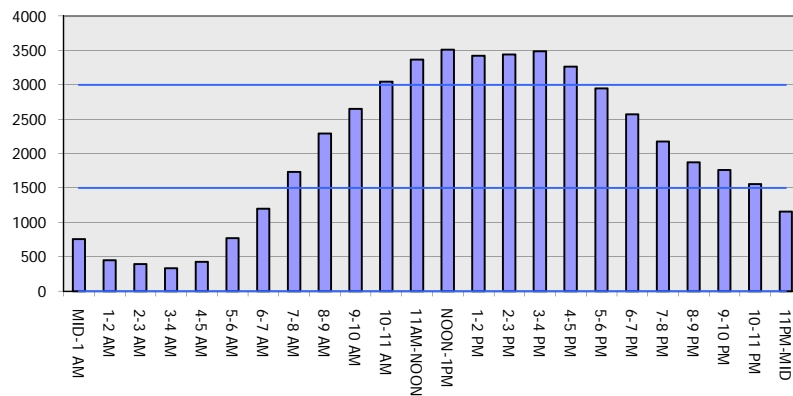
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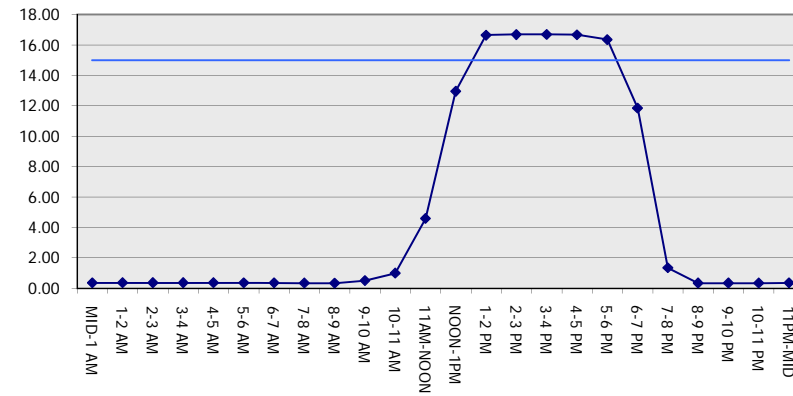
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SATURDAY NORTHBOUND DIRECTION

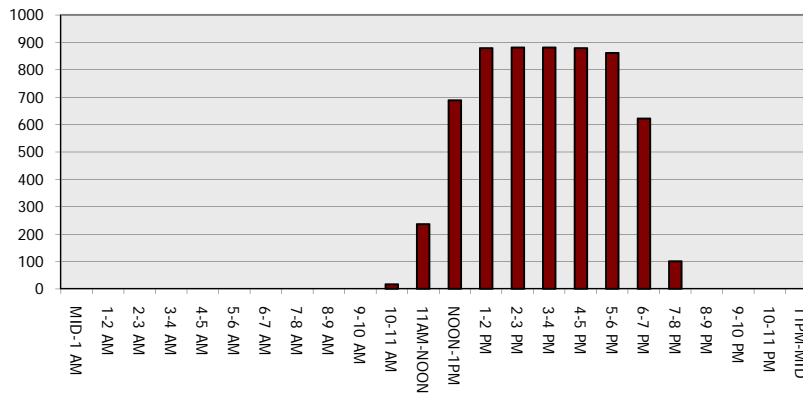
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

