

USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	584	0.0	3000	584	0	0.36	0	70.0	57.4	49.7
1-2 AM	431	0.0	3000	431	0	0.36	0	70.2	57.4	49.7
2-3 AM	386	0.0	3000	386	0	0.36	0	70.2	57.4	49.7
3-4 AM	464	0.0	3000	464	0	0.36	0	70.2	57.4	49.7
4-5 AM	835	0.0	3000	835	0	0.35	0	69.7	57.3	49.7
5-6 AM	2366	0.0	OFF	2366	0	0.00	0	67.8	67.8	67.8
6-7 AM	5192	0.0	OFF	5192	0	0.00	0	55.4	55.4	55.4
7-8 AM	5750	0.0	OFF	5750	0	0.00	0	51.5	51.5	51.5
8-9 AM	5296	0.0	OFF	5296	0	0.00	0	54.6	54.6	54.6
9-10 AM	4237	0.0	OFF	4237	0	0.00	0	61.9	61.9	61.9
10-11 AM	3993	0.0	OFF	3993	0	0.00	0	63.6	63.6	63.6
11AM-NOON	4247	0.0	OFF	4247	0	0.00	0	61.9	61.9	61.9
NOON-1PM	4402	0.0	OFF	4402	0	0.00	0	60.8	60.8	60.8
1-2 PM	4262	0.0	OFF	4262	0	0.00	0	61.7	61.7	61.7
2-3 PM	5100	0.0	OFF	5100	0	0.00	0	56.0	56.0	56.0
3-4 PM	4985	0.0	OFF	4985	0	0.00	0	56.8	56.8	56.8
4-5 PM	4209	0.0	OFF	4209	0	0.00	0	62.1	62.1	62.1
5-6 PM	3921	0.0	OFF	3921	0	0.00	0	64.1	64.1	64.1
6-7 PM	4185	0.0	OFF	4185	0	0.00	0	62.3	62.3	62.3
7-8 PM	2842	0.0	2999	2842	0	0.80	13	67.2	45.6	40.9
8-9 PM	2212	0.0	3000	2212	0	0.33	0	68.0	56.8	49.7
9-10 PM	1965	0.0	3000	1965	0	0.34	0	68.3	56.9	49.7
10-11 PM	1537	0.0	3000	1537	0	0.34	0	68.8	57.1	49.7
11PM-MID	1238	0.0	3000	1238	0	0.35	0	69.2	57.1	49.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0226
MAIN ROUTE WITH WORKS	0.0218
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,244
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

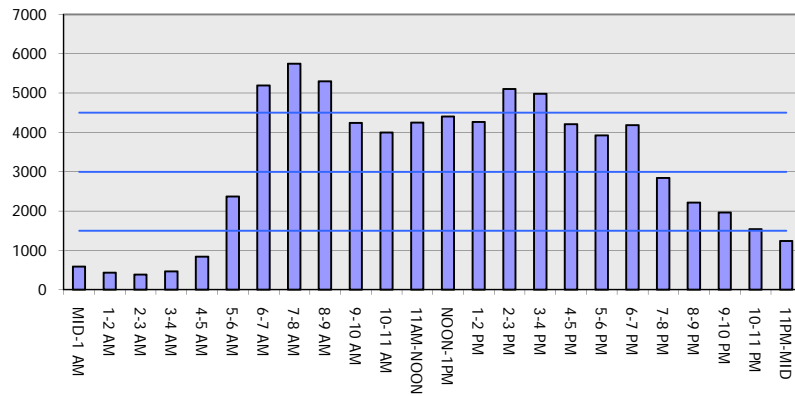
OCTOBER

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Construction Season

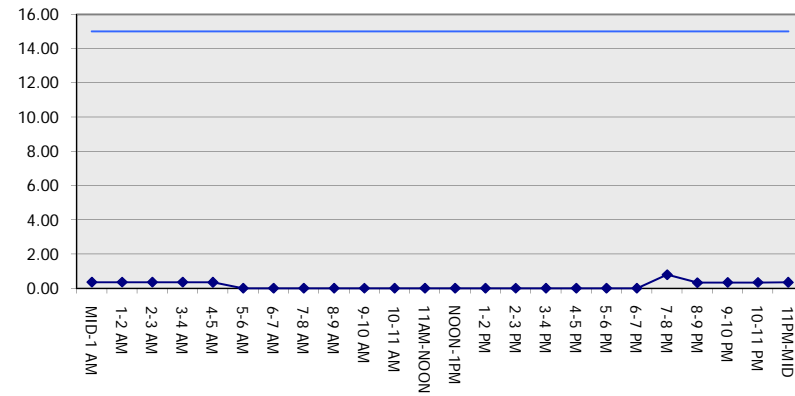
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION

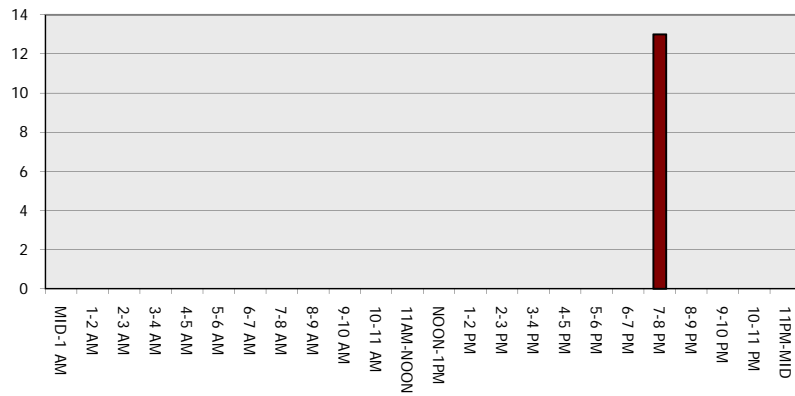
Main Route - Traffic Demand (Vehicles Per Hour)



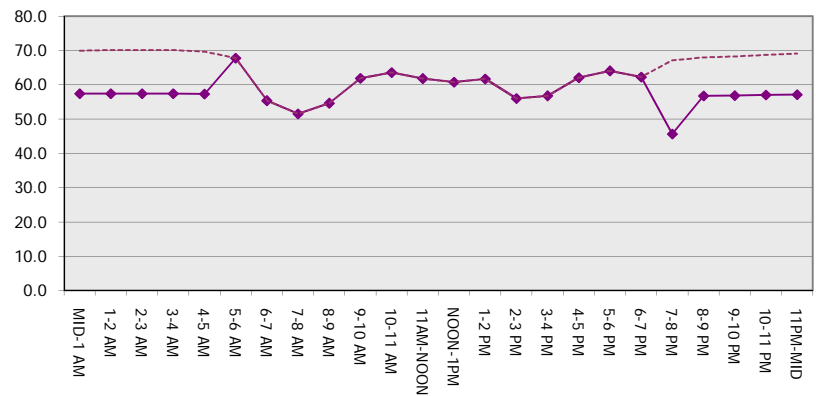
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	782	0.0	3000	782	0	0.35	0	69.7	57.3	49.7
1-2 AM	627	0.0	3000	627	0	0.36	0	69.9	57.4	49.7
2-3 AM	591	0.0	3000	591	0	0.36	0	70.0	57.4	49.7
3-4 AM	662	0.0	3000	662	0	0.36	0	69.9	57.4	49.7
4-5 AM	1228	0.0	3000	1228	0	0.35	0	69.2	57.2	49.7
5-6 AM	3174	0.0	OFF	3174	0	0.00	0	66.8	66.8	66.8
6-7 AM	5320	0.0	OFF	5320	0	0.00	0	54.5	54.5	54.5
7-8 AM	6186	0.0	OFF	6186	0	0.00	0	48.6	48.6	48.6
8-9 AM	5442	0.0	OFF	5442	0	0.00	0	53.7	53.7	53.7
9-10 AM	4225	0.0	OFF	4225	0	0.00	0	62.0	62.0	62.0
10-11 AM	3969	0.0	OFF	3969	0	0.00	0	63.7	63.7	63.7
11AM-NOON	4174	0.0	OFF	4174	0	0.00	0	62.3	62.3	62.3
NOON-1PM	4359	0.0	OFF	4359	0	0.00	0	61.1	61.1	61.1
1-2 PM	4393	0.0	OFF	4393	0	0.00	0	60.9	60.9	60.9
2-3 PM	5218	0.0	OFF	5218	0	0.00	0	55.2	55.2	55.2
3-4 PM	5941	0.0	OFF	5941	0	0.00	0	50.3	50.3	50.3
4-5 PM	6383	0.0	OFF	6383	0	0.00	0	47.3	47.3	47.3
5-6 PM	6184	0.0	OFF	6184	0	0.00	0	48.6	48.6	48.6
6-7 PM	4585	0.0	OFF	4585	0	0.00	0	59.6	59.6	59.6
7-8 PM	3151	0.0	2999	3151	0	3.07	134	66.8	23.8	37.3
8-9 PM	2690	0.0	2999	2690	0	1.17	47	67.4	39.9	41.4
9-10 PM	2538	0.0	3000	2538	0	0.43	0	67.6	54.0	45.9
10-11 PM	1948	0.0	3000	1948	0	0.34	0	68.3	56.9	49.7
11PM-MID	1334	0.0	3000	1334	0	0.35	0	69.1	57.1	49.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0258
MAIN ROUTE WITH WORKS	0.0247
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$3,654
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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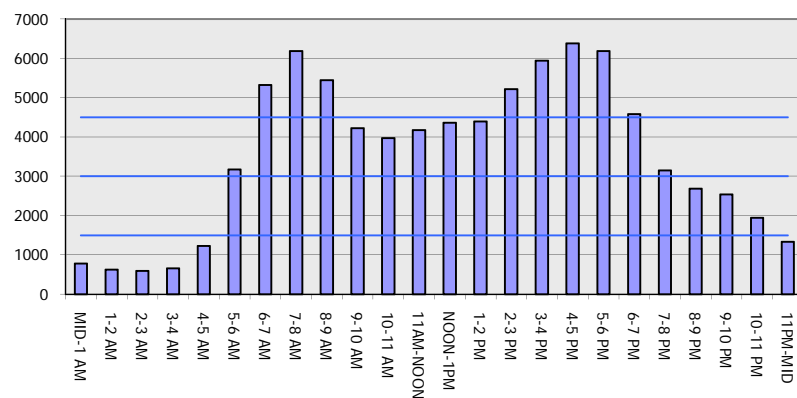
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

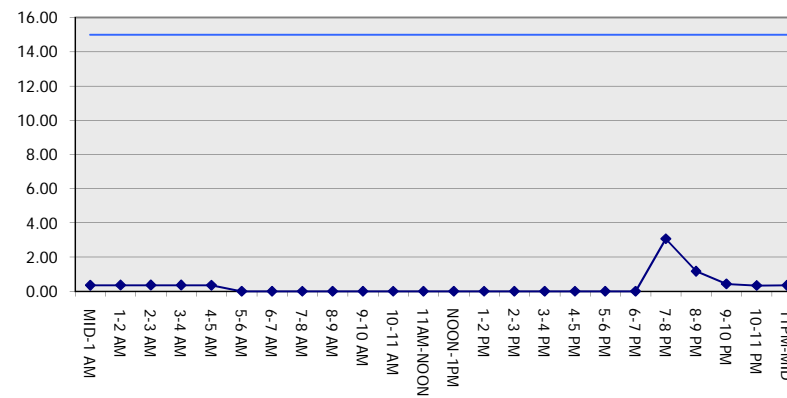
MON-THUR

NORTHBOUND DIRECTION

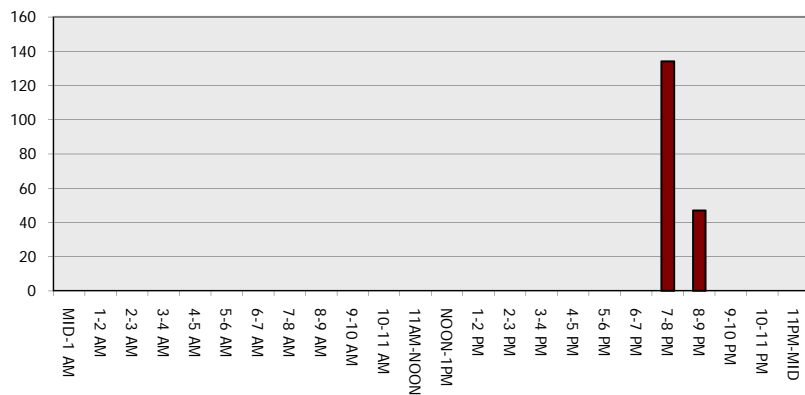
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

