

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) 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	371	0.0	3000	371	0	0.36	0	70.2	64.3	49.7
1-2 AM	260	0.0	3000	260	0	0.36	0	70.2	64.3	49.7
2-3 AM	275	0.0	3000	275	0	0.36	0	70.2	64.3	49.7
3-4 AM	411	0.0	3000	411	0	0.36	0	70.2	64.3	49.7
4-5 AM	859	0.0	3000	859	0	0.35	0	69.7	64.0	49.7
5-6 AM	2985	0.0	OFF	2985	0	0.00	0	67.0	67.0	67.0
6-7 AM	6126	0.0	OFF	6126	0	0.00	0	49.0	49.0	49.0
7-8 AM	6548	0.0	OFF	6548	0	0.00	0	46.1	46.1	46.1
8-9 AM	4403	0.0	OFF	4403	0	0.00	0	60.8	60.8	60.8
9-10 AM	3159	0.0	OFF	3159	0	0.00	0	66.8	66.8	66.8
10-11 AM	2884	0.0	OFF	2884	0	0.00	0	67.1	67.1	67.1
11AM-NOON	2972	0.0	OFF	2972	0	0.00	0	67.1	67.1	67.1
NOON-1PM	3113	0.0	OFF	3113	0	0.00	0	66.9	66.9	66.9
1-2 PM	3162	0.0	OFF	3162	0	0.00	0	66.8	66.8	66.8
2-3 PM	3658	0.0	OFF	3658	0	0.00	0	65.9	65.9	65.9
3-4 PM	4007	0.0	OFF	4007	0	0.00	0	63.5	63.5	63.5
4-5 PM	3937	0.0	OFF	3937	0	0.00	0	64.0	64.0	64.0
5-6 PM	3395	0.0	OFF	3395	0	0.00	0	66.5	66.5	66.5
6-7 PM	2625	0.0	OFF	2625	0	0.00	0	67.4	67.4	67.4
7-8 PM	1871	0.0	3000	1871	0	0.34	0	68.4	63.2	49.7
8-9 PM	1529	0.0	3000	1529	0	0.34	0	68.8	63.4	49.7
9-10 PM	1340	0.0	3000	1340	0	0.35	0	69.1	63.6	49.7
10-11 PM	1042	0.0	3000	1042	0	0.35	0	69.4	63.8	49.7
11PM-MID	771	0.0	3000	771	0	0.35	0	69.8	64.0	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	0.0452
MAIN ROUTE WITH WORKS	0.0446
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$597
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

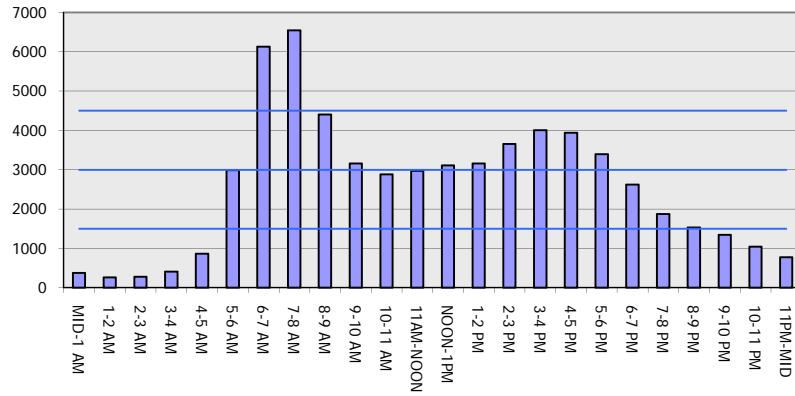
OCTOBER

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 Construction Season

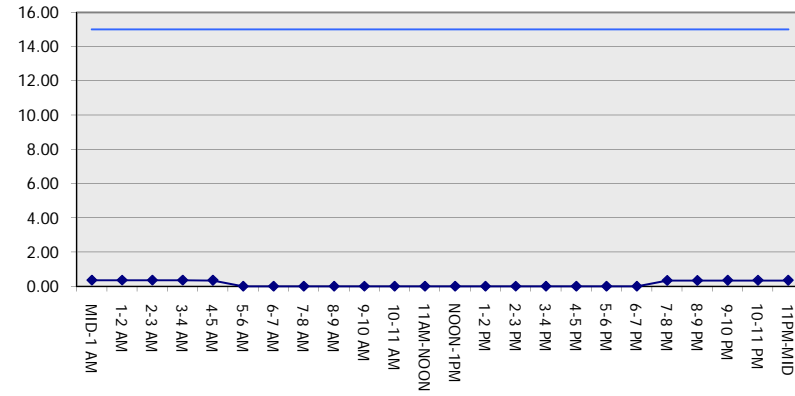
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION

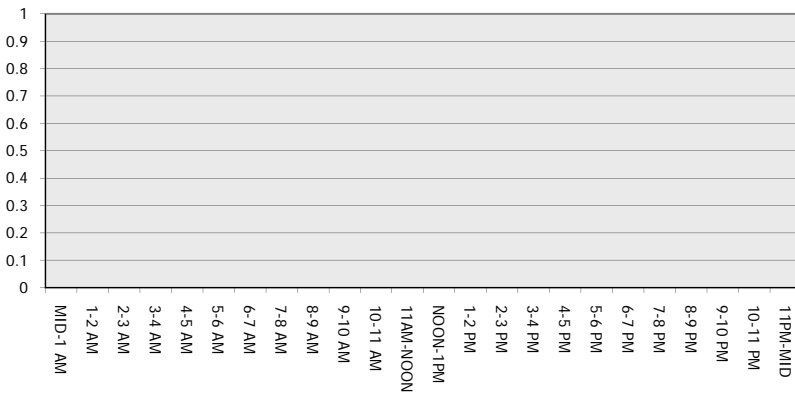
Main Route - Traffic Demand (Vehicles Per Hour)



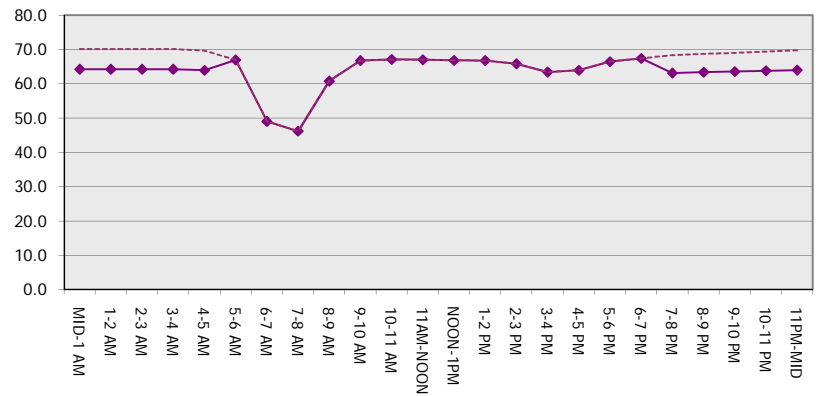
Main Route Average Delay Per Vehicle (Minutes)



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	394	0.0	3000	394	0	0.36	0	70.2	64.3	49.7
1-2 AM	276	0.0	3000	276	0	0.36	0	70.2	64.3	49.7
2-3 AM	270	0.0	3000	270	0	0.36	0	70.2	64.3	49.7
3-4 AM	305	0.0	3000	305	0	0.36	0	70.2	64.3	49.7
4-5 AM	695	0.0	3000	695	0	0.36	0	69.9	64.1	49.7
5-6 AM	1795	0.0	OFF	1795	0	0.00	0	68.5	68.5	68.5
6-7 AM	3106	0.0	OFF	3106	0	0.00	0	66.9	66.9	66.9
7-8 AM	3154	0.0	OFF	3154	0	0.00	0	66.8	66.8	66.8
8-9 AM	2827	0.0	OFF	2827	0	0.00	0	67.2	67.2	67.2
9-10 AM	2457	0.0	OFF	2457	0	0.00	0	67.7	67.7	67.7
10-11 AM	2596	0.0	OFF	2596	0	0.00	0	67.5	67.5	67.5
11AM-NOON	2863	0.0	OFF	2863	0	0.00	0	67.2	67.2	67.2
NOON-1PM	3003	0.0	OFF	3003	0	0.00	0	67.0	67.0	67.0
1-2 PM	3199	0.0	OFF	3199	0	0.00	0	66.8	66.8	66.8
2-3 PM	4383	0.0	OFF	4383	0	0.00	0	60.9	60.9	60.9
3-4 PM	5620	0.0	OFF	5620	0	0.00	0	52.5	52.5	52.5
4-5 PM	6566	0.0	OFF	6566	0	0.00	0	46.0	46.0	46.0
5-6 PM	5969	0.0	OFF	5969	0	0.00	0	50.1	50.1	50.1
6-7 PM	3499	0.0	OFF	3499	0	0.00	0	66.4	66.4	66.4
7-8 PM	2251	0.0	3000	2251	0	0.33	0	67.9	62.8	49.7
8-9 PM	1851	0.0	3000	1851	0	0.34	0	68.4	63.2	49.7
9-10 PM	1613	0.0	3000	1613	0	0.34	0	68.7	63.3	49.7
10-11 PM	1245	0.0	3000	1245	0	0.35	0	69.2	63.7	49.7
11PM-MID	761	0.0	3000	761	0	0.35	0	69.8	64.0	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	0.0444
MAIN ROUTE WITH WORKS	0.0438
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

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

*Delays Exceeding User-Specified Maximum

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MON-THUR NORTHBOUND DIRECTION

