

**USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)
OFF-PEAK DAY CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

OCTOBER
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	390	0.0	OFF	390	0	0.00	0	70.2	70.2	70.2
1-2 AM	281	0.0	OFF	281	0	0.00	0	70.2	70.2	70.2
2-3 AM	283	0.0	OFF	283	0	0.00	0	70.2	70.2	70.2
3-4 AM	376	0.0	OFF	376	0	0.00	0	70.2	70.2	70.2
4-5 AM	738	0.0	OFF	738	0	0.00	0	69.8	69.8	69.8
5-6 AM	2034	0.0	OFF	2034	0	0.00	0	68.2	68.2	68.2
6-7 AM	4362	0.0	OFF	4362	0	0.00	0	61.0	61.0	61.0
7-8 AM	5340	0.0	OFF	5340	0	0.00	0	54.4	54.4	54.4
8-9 AM	4094	0.0	OFF	4094	0	0.00	0	62.9	62.9	62.9
9-10 AM	3440	0.0	OFF	3440	0	0.00	0	66.4	66.4	66.4
10-11 AM	3454	0.0	2999	3454	0	4.12	222	66.4	22.5	37.3
11AM-NOON	3594	0.0	3000	3424	169	13.56+	721	66.3	11.5	37.3
NOON-1PM	3700	0.0	3000	3002	697	16.69+	883	65.6	10.5	37.3
1-2 PM	3470	0.0	3000	3001	470	16.69+	881	66.4	10.5	37.3
2-3 PM	4112	0.0	2999	3017	1095	16.67+	890	62.8	10.5	37.3
3-4 PM	4318	0.0	OFF	4318	0	2.64	239	61.4	28.2	28.2
4-5 PM	4506	0.0	OFF	4506	0	0.00	0	60.1	60.1	60.1
5-6 PM	4173	0.0	OFF	4173	0	0.00	0	62.3	62.3	62.3
6-7 PM	3246	0.0	OFF	3246	0	0.00	0	66.7	66.7	66.7
7-8 PM	2197	0.0	OFF	2197	0	0.00	0	68.0	68.0	68.0
8-9 PM	1555	0.0	OFF	1555	0	0.00	0	68.8	68.8	68.8
9-10 PM	1499	0.0	OFF	1499	0	0.00	0	68.9	68.9	68.9
10-11 PM	1233	0.0	OFF	1233	0	0.00	0	69.2	69.2	69.2
11PM-MID	1077	0.0	OFF	1077	0	0.00	0	69.4	69.4	69.4

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

+ 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	0.0232
MAIN ROUTE WITH WORKS	0.0213
'DIVERSION'	0.0021
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$44,442
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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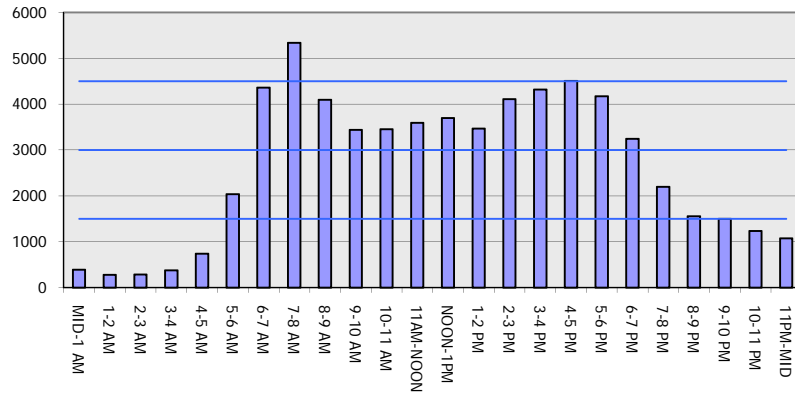
OCTOBER

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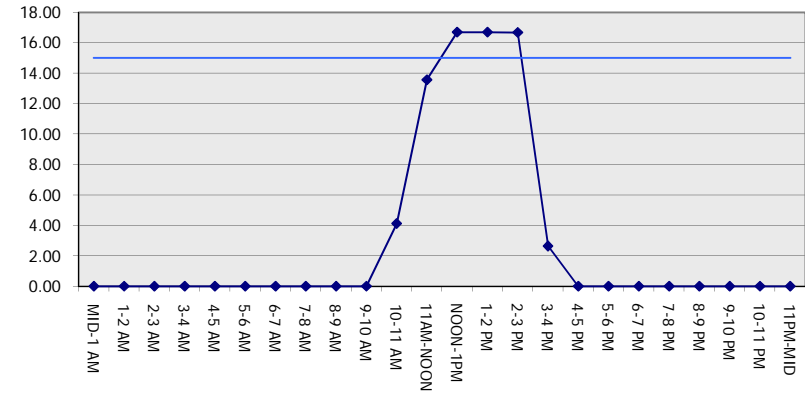
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY SOUTHBOUND DIRECTION

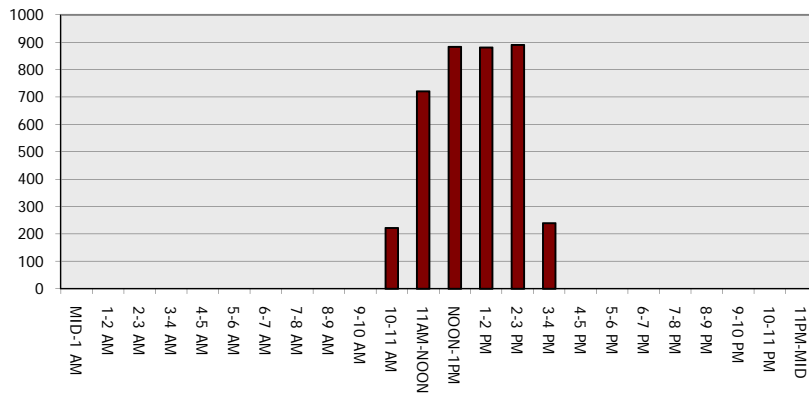
Main Route - Traffic Demand (Vehicles Per Hour)



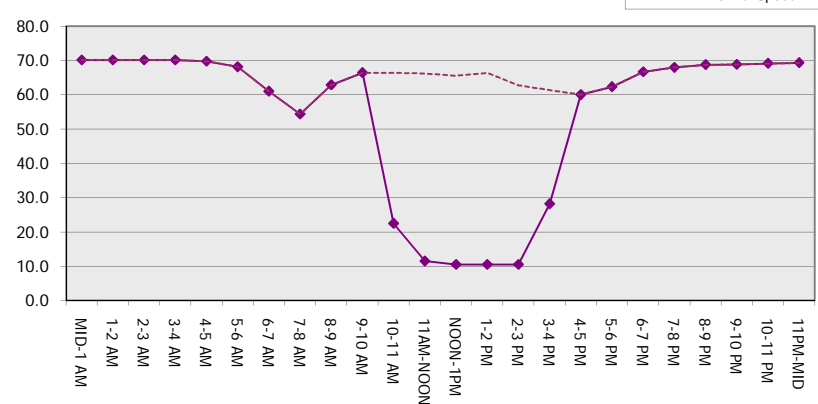
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

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	551	0.0	OFF	551	0	0.00	0	70.0	70.0	70.0
1-2 AM	355	0.0	OFF	355	0	0.00	0	70.2	70.2	70.2
2-3 AM	348	0.0	OFF	348	0	0.00	0	70.2	70.2	70.2
3-4 AM	399	0.0	OFF	399	0	0.00	0	70.2	70.2	70.2
4-5 AM	722	0.0	OFF	722	0	0.00	0	69.9	69.9	69.9
5-6 AM	1953	0.0	OFF	1953	0	0.00	0	68.3	68.3	68.3
6-7 AM	3566	0.0	OFF	3566	0	0.00	0	66.3	66.3	66.3
7-8 AM	4793	0.0	OFF	4793	0	0.00	0	58.1	58.1	58.1
8-9 AM	3894	0.0	OFF	3894	0	0.00	0	64.3	64.3	64.3
9-10 AM	3189	0.0	OFF	3189	0	0.00	0	66.8	66.8	66.8
10-11 AM	3234	0.0	2999	3234	0	2.38	105	66.7	31.0	37.3
11AM-NOON	3572	0.0	3000	3572	0	9.27	497	66.3	13.8	37.3
NOON-1PM	3977	0.0	2999	3074	903	16.73+	890	63.7	10.5	37.3
1-2 PM	4195	0.0	3000	3026	1169	16.72+	894	62.2	10.5	37.3
2-3 PM	4880	0.0	2999	3020	1860	17.20+	936	57.5	10.3	37.3
3-4 PM	5704	0.0	OFF	5704	0	7.89	778	51.9	13.0	13.0
4-5 PM	6294	0.0	OFF	6294	0	7.65	777	47.9	13.1	13.1
5-6 PM	5737	0.0	OFF	5737	0	8.02	792	51.7	12.9	12.9
6-7 PM	4006	0.0	OFF	4006	0	1.26	109	63.5	40.2	40.2
7-8 PM	2702	0.0	OFF	2702	0	0.00	0	67.4	67.4	67.4
8-9 PM	2215	0.0	OFF	2215	0	0.00	0	68.0	68.0	68.0
9-10 PM	2209	0.0	OFF	2209	0	0.00	0	68.0	68.0	68.0
10-11 PM	1720	0.0	OFF	1720	0	0.00	0	68.6	68.6	68.6
11PM-MID	1205	0.0	OFF	1205	0	0.00	0	69.2	69.2	69.2

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

+ 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	0.0236
'DIVERSION'	0.0033

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$68,655
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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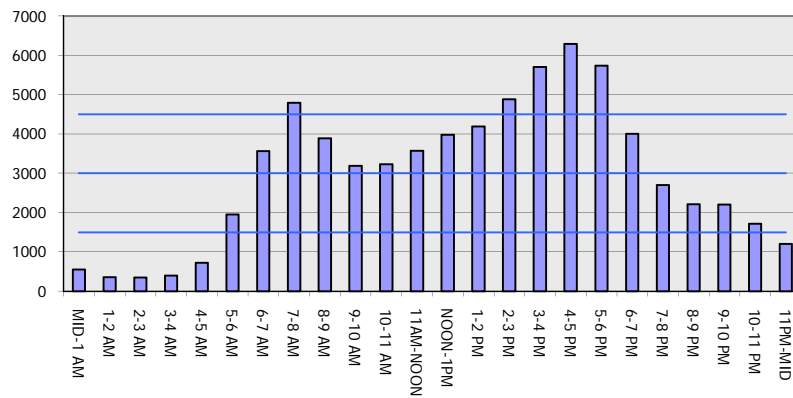
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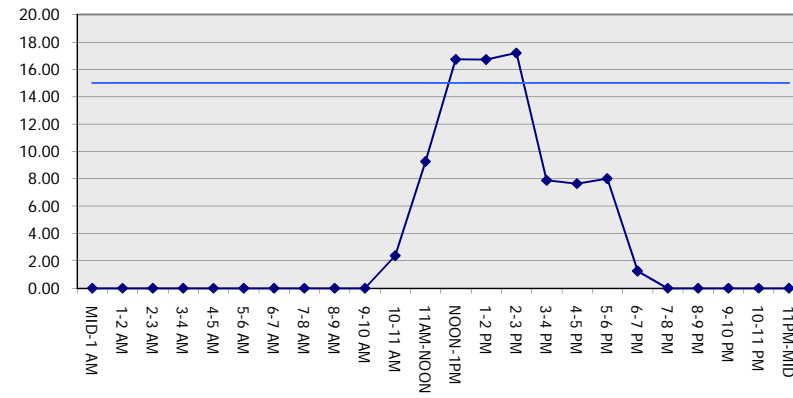
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FRIDAY NORTHBOUND DIRECTION

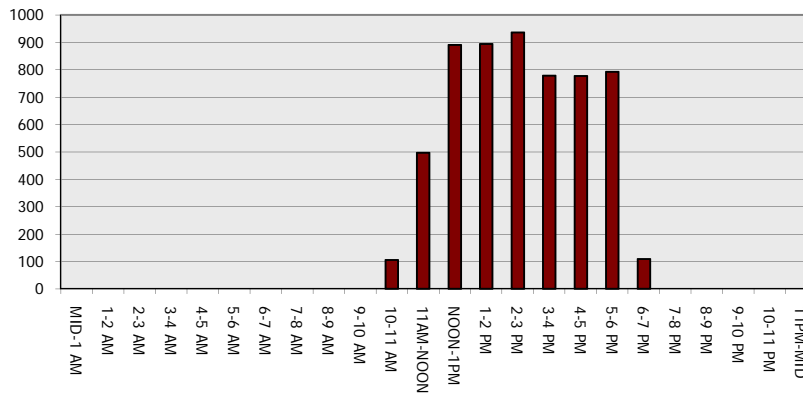
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

