

<b>USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)                  CONTINUOUS (24 HOUR) CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	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	3000	390	0	0.36	0	70.2	59.3	49.7
1-2 AM	281	0.0	3000	281	0	0.36	0	70.2	59.3	49.7
2-3 AM	283	0.0	3000	283	0	0.36	0	70.2	59.3	49.7
3-4 AM	376	0.0	3000	376	0	0.36	0	70.2	59.3	49.7
4-5 AM	738	0.0	3000	738	0	0.35	0	69.8	59.2	49.7
5-6 AM	2034	0.0	2999	2034	0	0.37	0	68.2	57.8	48.4
6-7 AM	4362	0.0	2999	4017	344	8.30+	518	61.0	15.2	37.3
7-8 AM	5340	0.0	3000	2979	2361	17.01+	938	54.4	10.3	37.3
8-9 AM	4094	0.0	2999	2905	1189	16.93+	904	62.9	10.4	37.3
9-10 AM	3440	0.0	2999	2991	449	16.69+	881	66.4	10.5	37.3
10-11 AM	3454	0.0	2999	2995	458	16.69+	881	66.4	10.5	37.3
11AM-NOON	3594	0.0	2999	2998	596	16.71+	882	66.3	10.5	37.3
NOON-1PM	3700	0.0	3000	2999	701	16.69+	883	65.6	10.5	37.3
1-2 PM	3470	0.0	3000	2999	471	16.69+	881	66.4	10.5	37.3
2-3 PM	4112	0.0	2999	3014	1098	16.68+	890	62.8	10.5	37.3
3-4 PM	4318	0.0	3000	3015	1304	16.88+	906	61.4	10.4	37.3
4-5 PM	4506	0.0	3000	3012	1493	17.15+	925	60.1	10.4	37.3
5-6 PM	4173	0.0	3000	2973	1200	16.82+	899	62.3	10.4	37.3
6-7 PM	3246	0.0	3000	2964	281	16.62+	876	66.7	10.6	37.3
7-8 PM	2197	0.0	2999	2197	0	8.54+	513	68.0	15.2	42.7
8-9 PM	1555	0.0	3000	1555	0	0.36	1	68.8	58.3	49.7
9-10 PM	1499	0.0	3000	1499	0	0.34	0	68.9	58.8	49.7
10-11 PM	1233	0.0	3000	1233	0	0.35	0	69.2	58.9	49.7
11PM-MID	1077	0.0	3000	1077	0	0.35	0	69.4	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	0.0232
MAIN ROUTE WITH WORKS	0.0155
'DIVERSION'	0.0101
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$192,693
CONGESTED HOURS PER DAY*	14

\*Delays Exceeding User-Specified Maximum

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CONTINUOUS (24 HOUR) CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

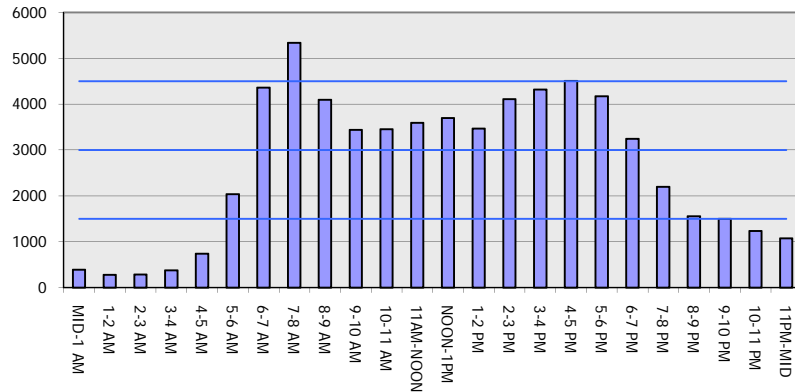
**OCTOBER**

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Construction Season

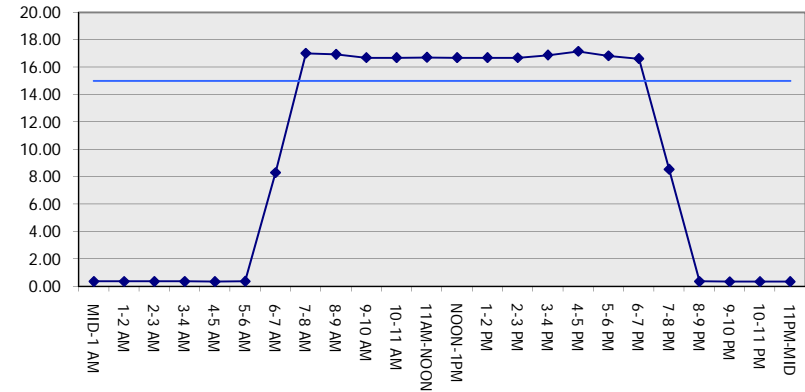
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY SOUTHBOUND DIRECTION**

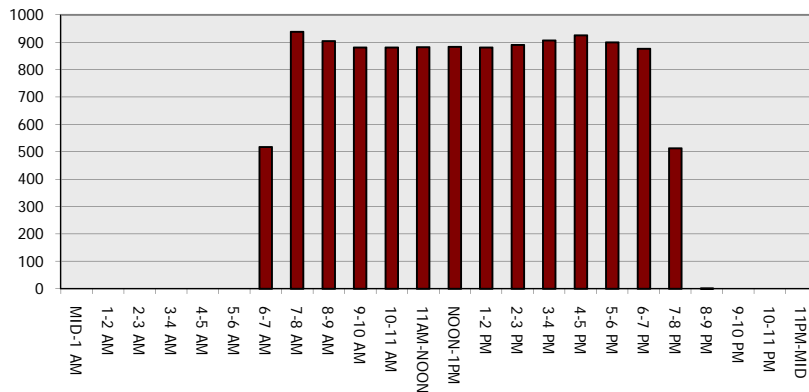
**Main Route - Traffic Demand (Vehicles Per Hour)**



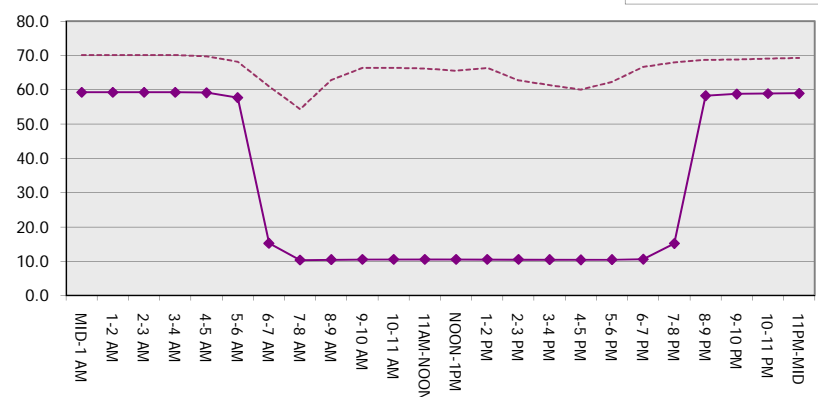
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



<b>USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
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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	3000	551	0	0.36	0	70.0	59.3	49.7
1-2 AM	355	0.0	3000	355	0	0.36	0	70.2	59.3	49.7
2-3 AM	348	0.0	3000	348	0	0.36	0	70.2	59.3	49.7
3-4 AM	399	0.0	3000	399	0	0.36	0	70.2	59.3	49.7
4-5 AM	722	0.0	3000	722	0	0.35	0	69.9	59.2	49.7
5-6 AM	1953	0.0	2999	1953	0	0.34	0	68.3	58.6	49.7
6-7 AM	3566	0.0	2999	3566	0	3.16	194	66.3	26.6	37.3
7-8 AM	4793	0.0	2999	3392	1401	16.46+	896	58.1	10.5	37.3
8-9 AM	3894	0.0	2999	2939	955	16.80+	893	64.3	10.5	37.3
9-10 AM	3189	0.0	3000	2990	199	16.66+	878	66.8	10.6	37.3
10-11 AM	3234	0.0	2999	2997	237	16.67+	879	66.7	10.6	37.3
11AM-NOON	3572	0.0	2999	2999	573	16.70+	882	66.3	10.5	37.3
NOON-1PM	3977	0.0	2999	3001	975	16.64+	885	63.7	10.5	37.3
1-2 PM	4195	0.0	3000	3022	1173	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	3000	3000	2704	16.84+	939	51.9	10.3	37.3
4-5 PM	6294	0.0	3000	3000	3294	16.49+	939	47.9	10.3	37.3
5-6 PM	5737	0.0	3000	3000	2737	16.83+	939	51.7	10.3	37.3
6-7 PM	4006	0.0	3000	2980	1026	16.88+	899	63.5	10.4	37.3
7-8 PM	2702	0.0	2999	2668	34	14.90+	784	67.4	11.1	37.3
8-9 PM	2215	0.0	2999	2215	0	2.59	223	68.0	30.5	45.5
9-10 PM	2209	0.0	3000	2209	0	0.33	0	68.0	58.4	49.7
10-11 PM	1720	0.0	3000	1720	0	0.34	0	68.6	58.7	49.7
11PM-MID	1205	0.0	3000	1205	0	0.35	0	69.2	58.9	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	0.0261
MAIN ROUTE WITH WORKS	0.0163
'DIVERSION'	0.0145

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$215,117
CONGESTED HOURS PER DAY*	13

\*Delays Exceeding User-Specified Maximum

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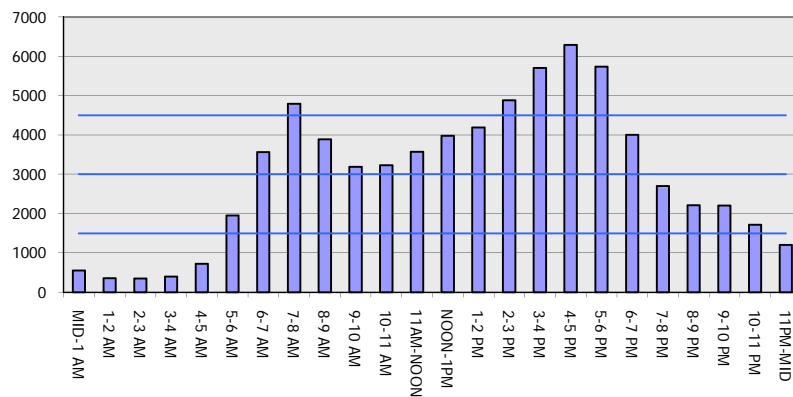
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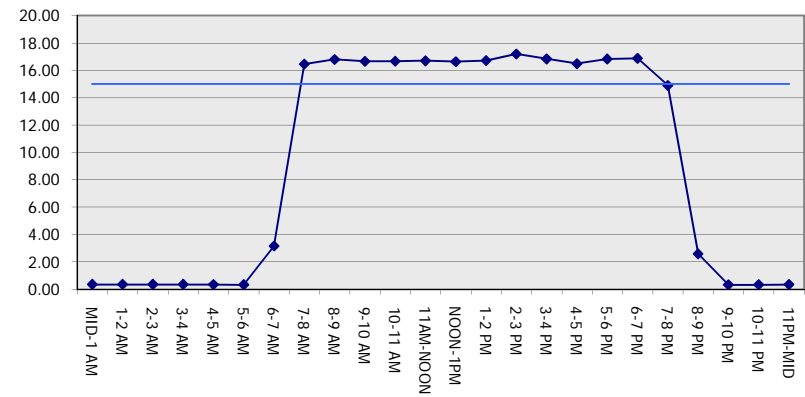
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**FRIDAY NORTHBOUND DIRECTION**

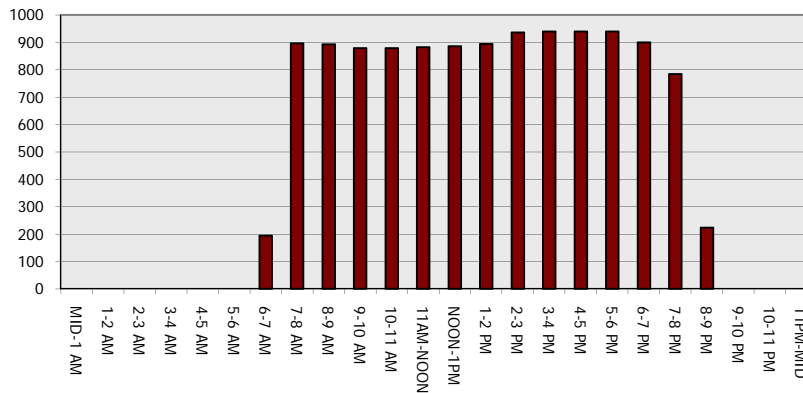
**Main Route - Traffic Demand (Vehicles Per Hour)**



**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**

