

<b>USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	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	345	0.0	1500	345	0	0.51	0	70.2	55.6	44.1	
1-2 AM	260	0.0	1500	260	0	0.50	0	70.2	55.8	44.5	
2-3 AM	266	0.0	1500	266	0	0.50	0	70.2	55.8	44.4	
3-4 AM	371	0.0	1500	371	0	0.52	0	70.2	55.5	44.0	
4-5 AM	745	0.0	1500	745	0	0.56	0	69.8	54.4	42.6	
5-6 AM	2210	0.0	1499	2122	88	5.84+	211	68.0	18.0	30.8	
6-7 AM	4736	0.0	1500	1316	3420	15.87+	403	58.5	8.1	35.1	
7-8 AM	5611	0.0	1500	1500	4111	16.12+	411	52.5	7.9	30.8	
8-9 AM	4433	0.0	1500	1500	2933	16.50+	411	60.5	7.9	30.8	
9-10 AM	3325	0.0	1500	1496	1829	16.72+	410	66.6	7.9	30.8	
10-11 AM	3072	0.0	1499	1492	1580	16.71+	410	66.9	7.9	30.8	
11AM-NOON	3177	0.0	1499	1497	1680	16.72+	410	66.8	7.9	30.8	
NOON-1PM	3217	0.0	1499	1499	1718	16.73+	411	66.8	7.9	30.8	
1-2 PM	3261	0.0	1499	1499	1762	16.73+	411	66.7	7.9	30.8	
2-3 PM	3881	0.0	1500	1500	2381	16.65+	411	64.3	7.9	30.8	
3-4 PM	4312	0.0	1500	1500	2812	16.54+	411	61.4	7.9	30.8	
4-5 PM	4285	0.0	1500	1500	2785	16.55+	411	61.6	7.9	30.8	
5-6 PM	4129	0.0	1500	1500	2629	16.59+	411	62.7	7.9	30.8	
6-7 PM	3075	0.0	1500	1497	1577	16.69+	409	66.9	7.9	30.8	
7-8 PM	1966	0.0	1500	1500	467	16.62+	406	68.3	7.9	30.8	
8-9 PM	1504	0.0	1499	1457	47	16.38+	400	68.9	8.0	30.8	
9-10 PM	1312	0.0	1499	1312	0	12.24	298	69.1	9.8	30.8	
10-11 PM	950	0.0	1500	950	0	1.27	35	69.6	42.4	41.2	
11PM-MID	854	0.0	1500	854	0	0.57	0	69.7	54.1	42.2	

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(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	0
(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	0.0224
MAIN ROUTE WITH WORKS	0.0088
'DIVERSION'	0.0270
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$200,813
CONGESTED HOURS PER DAY*	16

\*Delays Exceeding User-Specified Maximum

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CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

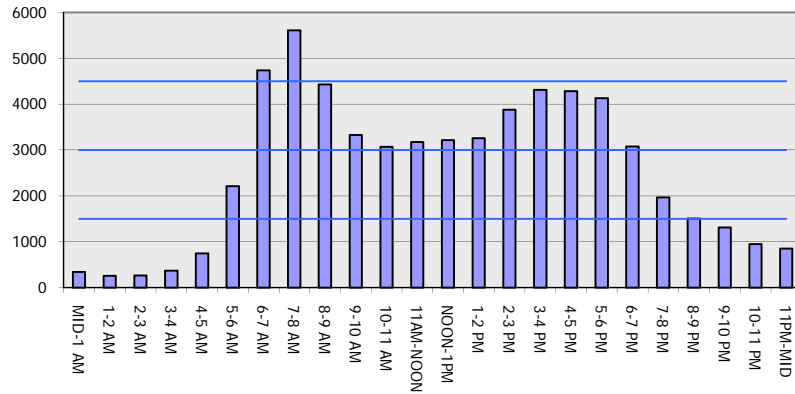
**OCTOBER**

Analyzed for 2009  
Construction Season

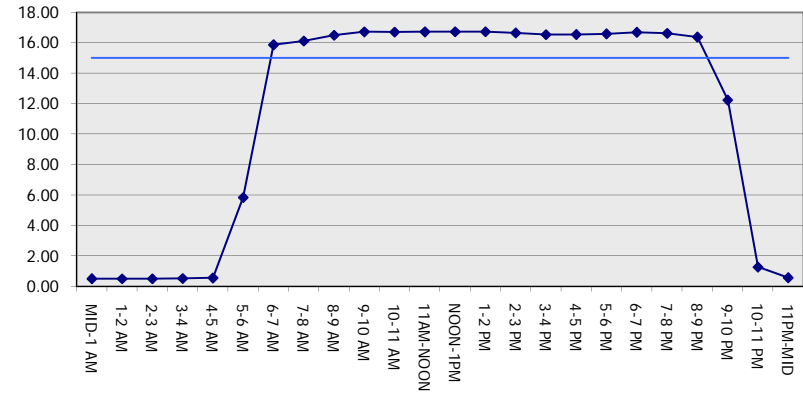
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**MON-THUR SOUTHBOUND DIRECTION**

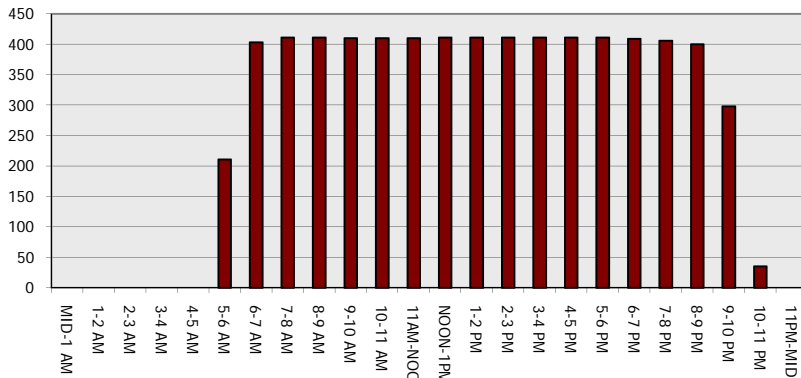
**Main Route - Traffic Demand (Vehicles Per Hour)**



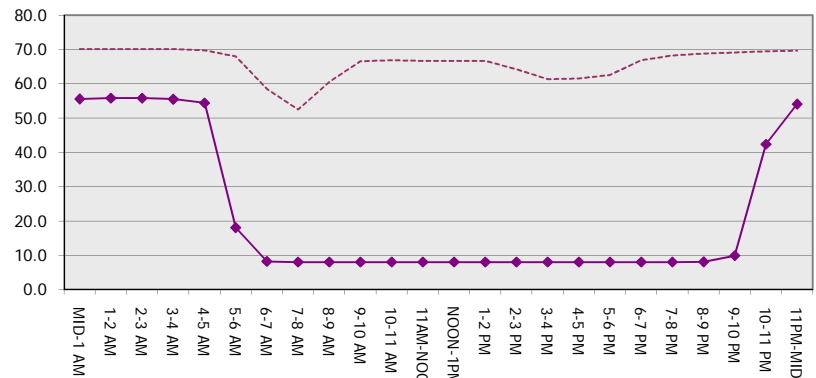
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



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	Analyzed for 2009 Construction Season

**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	421	0.0	1500	421	0	0.52	0	70.2	55.4	43.8
1-2 AM	290	0.0	1500	290	0	0.51	0	70.2	55.8	44.3
2-3 AM	270	0.0	1500	270	0	0.51	0	70.2	55.8	44.4
3-4 AM	332	0.0	1500	332	0	0.51	0	70.2	55.6	44.2
4-5 AM	678	0.0	1500	678	0	0.55	0	69.9	54.6	42.8
5-6 AM	2001	0.0	1499	2001	0	4.25	152	68.2	22.0	30.8
6-7 AM	3822	0.0	1500	1492	2330	16.62+	410	64.8	7.9	31.1
7-8 AM	4904	0.0	1500	1500	3404	16.36+	411	57.4	7.9	30.9
8-9 AM	4096	0.0	1500	1496	2600	16.58+	410	62.8	7.9	30.9
9-10 AM	2901	0.0	1499	1483	1418	16.69+	409	67.1	7.9	30.8
10-11 AM	2815	0.0	1499	1483	1332	16.69+	409	67.3	7.9	30.8
11AM-NOON	2939	0.0	1499	1485	1454	16.69+	409	67.1	7.9	30.8
NOON-1PM	3187	0.0	1499	1494	1693	16.71+	410	66.8	7.9	30.8
1-2 PM	3422	0.0	1499	1499	1923	16.72+	411	66.5	7.9	30.8
2-3 PM	4265	0.0	1500	1500	2765	16.55+	411	61.7	7.9	30.8
3-4 PM	5159	0.0	1500	1500	3659	16.28+	411	55.6	7.9	30.8
4-5 PM	5848	0.0	1500	1500	4348	16.03+	411	50.9	7.9	30.8
5-6 PM	5627	0.0	1500	1500	4127	16.12+	411	52.4	7.9	30.8
6-7 PM	3613	0.0	1500	1498	2115	16.71+	410	66.2	7.9	30.8
7-8 PM	2361	0.0	1500	1498	864	16.62+	407	67.8	7.9	30.8
8-9 PM	1972	0.0	1499	1499	473	16.62+	406	68.3	7.9	30.8
9-10 PM	1790	0.0	1500	1499	291	16.62+	406	68.5	7.9	30.8
10-11 PM	1385	0.0	1499	1343	42	14.87+	363	69.0	8.5	30.8
11PM-MID	829	0.0	1500	829	0	1.71	66	69.7	37.3	41.4

+ 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	0.0238
MAIN ROUTE WITH WORKS	0.0090
'DIVERSION'	0.0295

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$217,446
CONGESTED HOURS PER DAY*	17

\*Delays Exceeding User-Specified Maximum

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**OCTOBER**

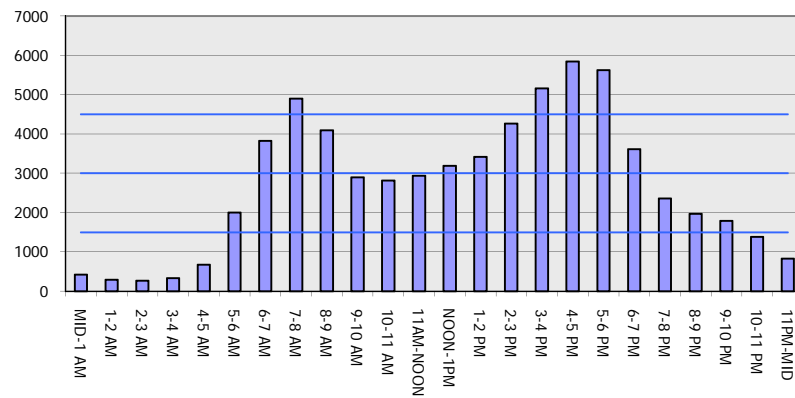
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

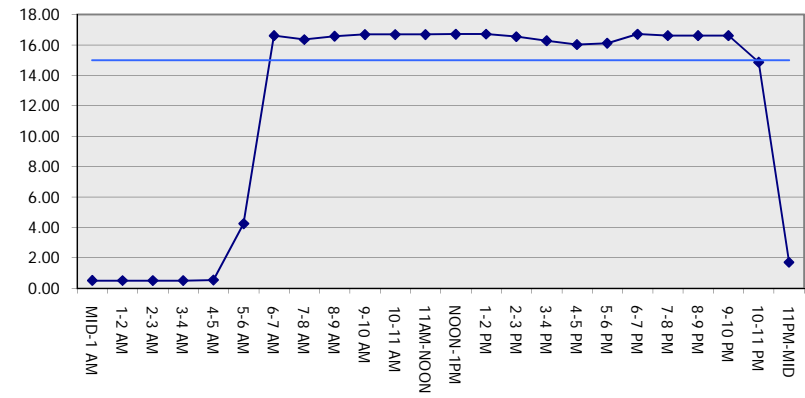
**MON-THUR**

**NORTHBOUND DIRECTION**

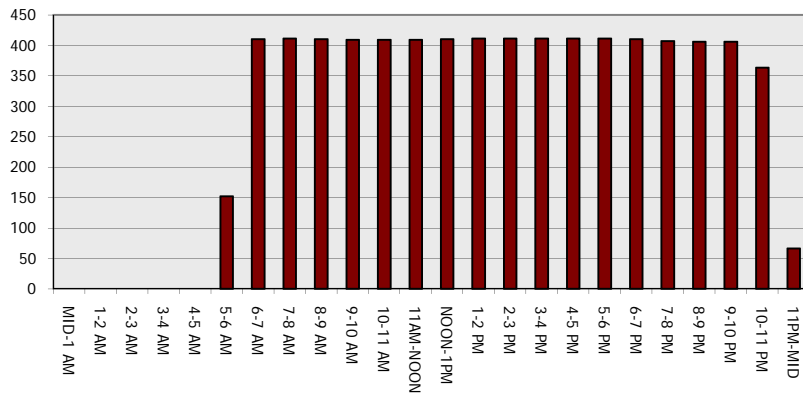
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

