

<b>USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)</b> <b>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</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	362	0.0	OFF	362	0	0.00	0	70.2	70.2	70.2
1-2 AM	250	0.0	OFF	250	0	0.00	0	70.2	70.2	70.2
2-3 AM	253	0.0	OFF	253	0	0.00	0	70.2	70.2	70.2
3-4 AM	373	0.0	OFF	373	0	0.00	0	70.2	70.2	70.2
4-5 AM	772	0.0	OFF	772	0	0.00	0	69.8	69.8	69.8
5-6 AM	2222	0.0	OFF	2222	0	0.00	0	68.0	68.0	68.0
6-7 AM	4558	0.0	OFF	4558	0	0.00	0	59.7	59.7	59.7
7-8 AM	5694	0.0	OFF	5694	0	0.00	0	52.0	52.0	52.0
8-9 AM	4583	0.0	OFF	4583	0	0.00	0	59.6	59.6	59.6
9-10 AM	3595	0.0	OFF	3595	0	0.00	0	66.3	66.3	66.3
10-11 AM	3456	0.0	1499	1564	1892	16.88+	422	66.4	7.9	36.6
11AM-NOON	3453	0.0	1499	1698	1754	14.74+	385	66.4	8.8	35.6
NOON-1PM	3388	0.0	1499	1518	1870	16.41+	409	66.5	8.1	35.6
1-2 PM	3305	0.0	1500	1517	1788	16.47+	409	66.6	8.0	34.3
2-3 PM	3821	0.0	1500	1512	2310	16.47+	410	64.8	8.0	33.3
3-4 PM	4210	0.0	OFF	4210	0	0.34	26	62.1	53.8	53.8
4-5 PM	4108	0.0	OFF	4108	0	0.00	0	62.8	62.8	62.8
5-6 PM	3932	0.0	OFF	3932	0	0.00	0	64.0	64.0	64.0
6-7 PM	2937	0.0	OFF	2937	0	0.00	0	67.1	67.1	67.1
7-8 PM	2059	0.0	OFF	2059	0	0.00	0	68.2	68.2	68.2
8-9 PM	1732	0.0	OFF	1732	0	0.00	0	68.6	68.6	68.6
9-10 PM	1421	0.0	OFF	1421	0	0.00	0	69.0	69.0	69.0
10-11 PM	1067	0.0	OFF	1067	0	0.00	0	69.4	69.4	69.4
11PM-MID	919	0.0	OFF	919	0	0.00	0	69.6	69.6	69.6

"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	0.0229
MAIN ROUTE WITH WORKS	0.0188
'DIVERSION'	0.0081
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$61,904
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

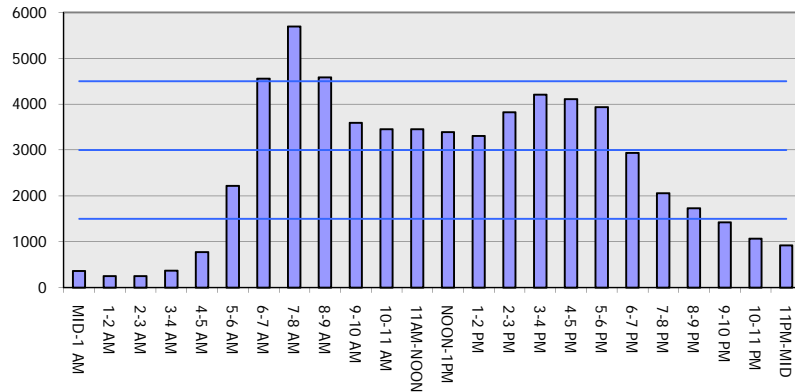
**USH 45: STH 145 TO CTH E (MILWAUKEE COUNTY)**  
**OFF-PEAK DAY 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**

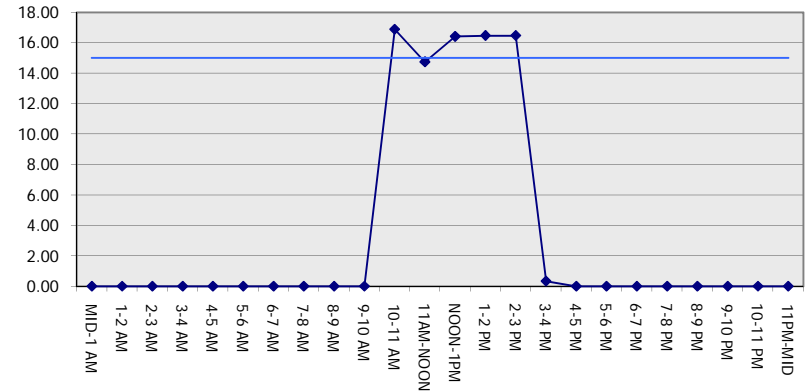
Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR SOUTHBOUND DIRECTION**

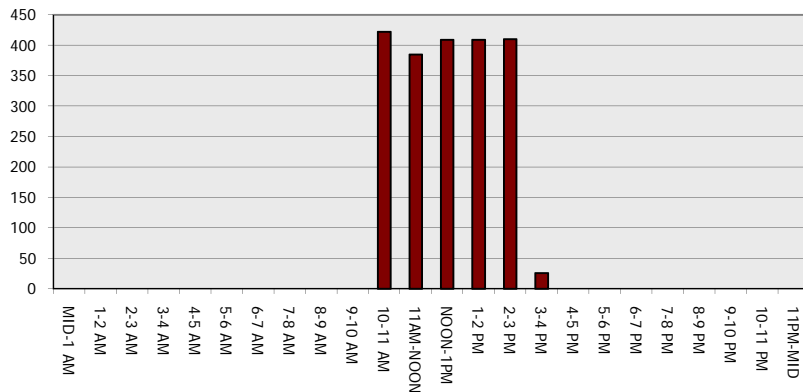
**Main Route - Traffic Demand (Vehicles Per Hour)**



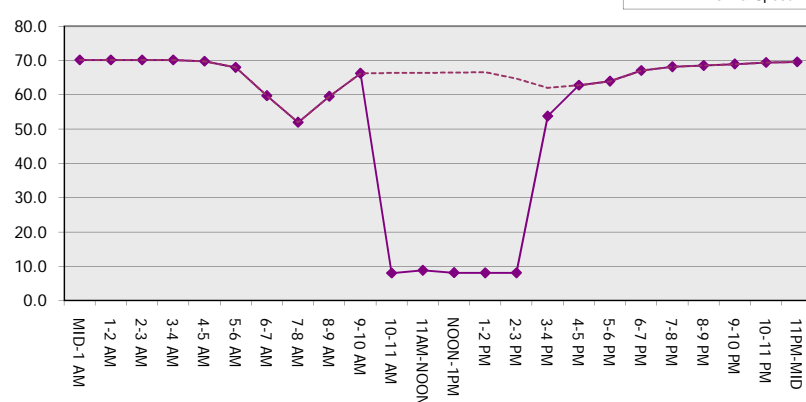
**Main Route Average Delay Per Vehicle (Minutes)**



**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	537	0.0	OFF	537	0	0.00	0	70.0	70.0	70.0
1-2 AM	331	0.0	OFF	331	0	0.00	0	70.2	70.2	70.2
2-3 AM	281	0.0	OFF	281	0	0.00	0	70.2	70.2	70.2
3-4 AM	326	0.0	OFF	326	0	0.00	0	70.2	70.2	70.2
4-5 AM	660	0.0	OFF	660	0	0.00	0	69.9	69.9	69.9
5-6 AM	1986	0.0	OFF	1986	0	0.00	0	68.2	68.2	68.2
6-7 AM	3683	0.0	OFF	3683	0	0.00	0	65.7	65.7	65.7
7-8 AM	4760	0.0	OFF	4760	0	0.00	0	58.3	58.3	58.3
8-9 AM	3884	0.0	OFF	3884	0	0.00	0	64.3	64.3	64.3
9-10 AM	3076	0.0	OFF	3076	0	0.00	0	66.9	66.9	66.9
10-11 AM	3023	0.0	1499	1566	1457	15.84+	394	67.0	8.2	36.5
11AM-NOON	3166	0.0	1499	1665	1501	14.64+	384	66.8	8.8	35.7
NOON-1PM	3352	0.0	1499	1591	1761	16.38+	403	66.6	8.0	31.9
1-2 PM	3657	0.0	1500	1508	2150	16.61+	410	65.9	7.9	31.8
2-3 PM	4440	0.0	1499	1500	2940	16.44+	411	60.5	7.9	31.9
3-4 PM	5068	0.0	OFF	5068	0	0.69	58	56.3	43.9	43.9
4-5 PM	5902	0.0	OFF	5902	0	0.00	0	50.5	50.5	50.5
5-6 PM	5713	0.0	OFF	5713	0	0.00	0	51.9	51.9	51.9
6-7 PM	3668	0.0	OFF	3668	0	0.00	0	65.8	65.8	65.8
7-8 PM	2497	0.0	OFF	2497	0	0.00	0	67.6	67.6	67.6
8-9 PM	2180	0.0	OFF	2180	0	0.00	0	68.0	68.0	68.0
9-10 PM	1970	0.0	OFF	1970	0	0.00	0	68.3	68.3	68.3
10-11 PM	1686	0.0	OFF	1686	0	0.00	0	68.6	68.6	68.6
11PM-MID	1075	0.0	OFF	1075	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	0.0245
MAIN ROUTE WITH WORKS	0.0204
'DIVERSION'	0.0083

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$62,503
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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OFF-PEAK DAY 2 LANE CLOSURE  
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**AUGUST**  
Analyzed for 2009  
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR NORTHBOUND DIRECTION**

