

<b>USH 45: CTH E TO STH 190 (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**

SUNDAY 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	871	0.0	OFF	871	0	0.00	0	69.7	69.7	69.7	
1-2 AM	483	0.0	OFF	483	0	0.00	0	70.1	70.1	70.1	
2-3 AM	450	0.0	OFF	450	0	0.00	0	70.2	70.2	70.2	
3-4 AM	268	0.0	OFF	268	0	0.00	0	70.2	70.2	70.2	
4-5 AM	310	0.0	OFF	310	0	0.00	0	70.2	70.2	70.2	
5-6 AM	459	0.0	OFF	459	0	0.00	0	70.2	70.2	70.2	
6-7 AM	969	0.0	OFF	969	0	0.00	0	69.6	69.6	69.6	
7-8 AM	1286	0.0	OFF	1286	0	0.00	0	69.1	69.1	69.1	
8-9 AM	1682	0.0	OFF	1682	0	0.00	0	68.6	68.6	68.6	
9-10 AM	2567	0.0	1499	1923	644	12.39+	315	67.6	8.9	30.8	
10-11 AM	3395	0.0	1499	1500	1895	17.20+	423	66.5	7.3	30.8	
11AM-NOON	3845	0.0	1500	1500	2345	17.14+	423	64.6	7.3	30.8	
NOON-1PM	4304	0.0	1500	1500	2804	17.03+	423	61.5	7.3	30.8	
1-2 PM	4135	0.0	1500	1500	2635	17.07+	423	62.6	7.3	30.8	
2-3 PM	4389	0.0	1500	1500	2889	17.01+	423	60.9	7.3	30.8	
3-4 PM	4146	0.0	1500	1500	2646	17.07+	423	62.5	7.3	30.8	
4-5 PM	4103	0.0	1500	1500	2603	17.08+	423	62.8	7.3	30.8	
5-6 PM	3281	0.0	1500	1500	1781	17.21+	423	66.6	7.3	30.8	
6-7 PM	3451	0.0	1500	1500	1951	17.20+	423	66.4	7.3	30.8	
7-8 PM	3016	0.0	OFF	3016	0	0.31	30	67.0	56.6	56.6	
8-9 PM	2632	0.0	OFF	2632	0	0.00	0	67.4	67.4	67.4	
9-10 PM	1867	0.0	OFF	1867	0	0.00	0	68.4	68.4	68.4	
10-11 PM	1440	0.0	OFF	1440	0	0.00	0	68.9	68.9	68.9	
11PM-MID	834	0.0	OFF	834	0	0.00	0	69.7	69.7	69.7	

"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	0.0164
MAIN ROUTE WITH WORKS	0.0087
'DIVERSION'	0.0156
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$175,381
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

**USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY)  
OFF-PEAK DAY 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

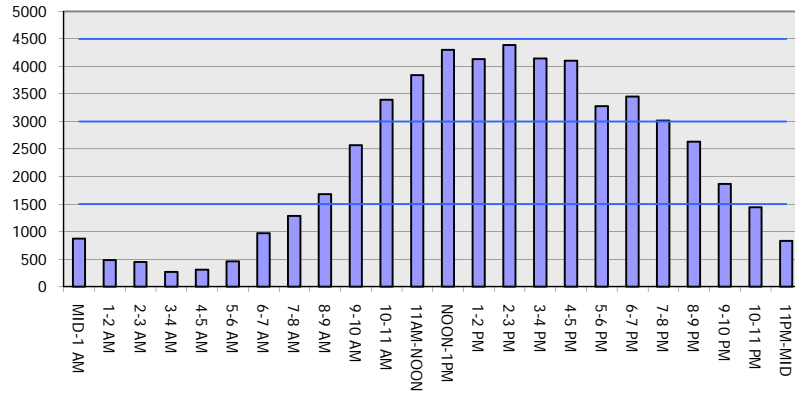
**AUGUST**

Analyzed for 2009  
Construction Season

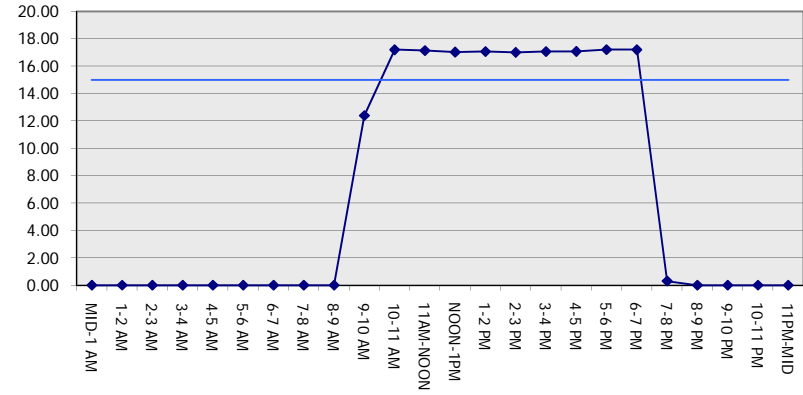
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY SOUTHBOUND DIRECTION**

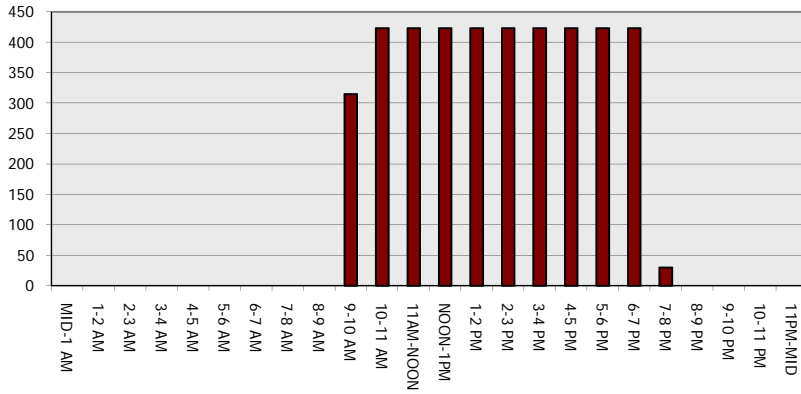
**Main Route - Traffic Demand (Vehicles Per Hour)**



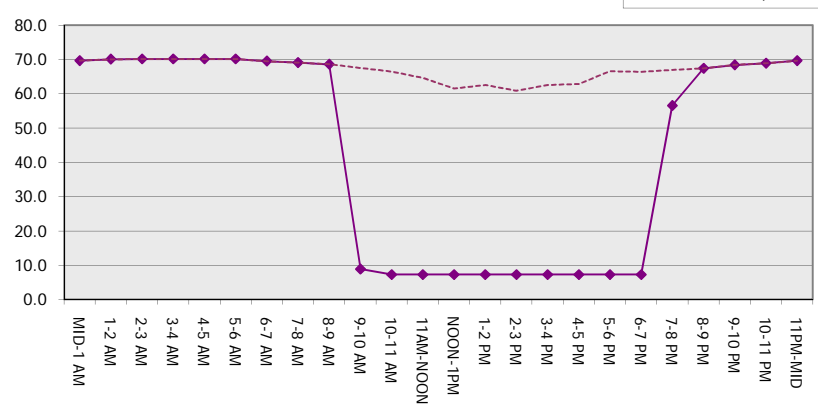
**Main Route Average Delay Per Vehicle (Minutes)**



**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**

SUNDAY 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	1511	0.0	OFF	1511	0	0.00	0	68.9	68.9	68.9
1-2 AM	957	0.0	OFF	957	0	0.00	0	69.6	69.6	69.6
2-3 AM	830	0.0	OFF	830	0	0.00	0	69.7	69.7	69.7
3-4 AM	579	0.0	OFF	579	0	0.00	0	70.0	70.0	70.0
4-5 AM	487	0.0	OFF	487	0	0.00	0	70.1	70.1	70.1
5-6 AM	699	0.0	OFF	699	0	0.00	0	69.9	69.9	69.9
6-7 AM	885	0.0	OFF	885	0	0.00	0	69.6	69.6	69.6
7-8 AM	1253	0.0	OFF	1253	0	0.00	0	69.2	69.2	69.2
8-9 AM	1615	0.0	OFF	1615	0	0.00	0	68.7	68.7	68.7
9-10 AM	2400	0.0	1499	1886	514	11.66+	303	67.8	9.4	30.8
10-11 AM	2744	0.0	1500	1517	1227	17.01+	417	67.3	7.3	30.8
11AM-NOON	3285	0.0	1500	1504	1781	17.19+	423	66.6	7.3	30.8
NOON-1PM	3708	0.0	1500	1500	2208	17.17+	423	65.5	7.3	30.8
1-2 PM	3683	0.0	1500	1500	2183	17.18+	423	65.7	7.3	30.8
2-3 PM	3655	0.0	1500	1500	2155	17.18+	423	65.9	7.3	30.8
3-4 PM	4056	0.0	1500	1500	2556	17.09+	423	63.2	7.3	30.8
4-5 PM	3782	0.0	1500	1500	2282	17.16+	423	65.0	7.3	30.8
5-6 PM	3597	0.0	1500	1500	2097	17.20+	423	66.3	7.3	30.8
6-7 PM	3616	0.0	1500	1500	2116	17.19+	423	66.1	7.3	30.8
7-8 PM	2961	0.0	OFF	2961	0	0.29	27	67.1	57.4	57.4
8-9 PM	2570	0.0	OFF	2570	0	0.00	0	67.6	67.6	67.6
9-10 PM	2110	0.0	OFF	2110	0	0.00	0	68.1	68.1	68.1
10-11 PM	1681	0.0	OFF	1681	0	0.00	0	68.6	68.6	68.6
11PM-MID	1101	0.0	OFF	1101	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	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	0.0163
MAIN ROUTE WITH WORKS	0.0095
'DIVERSION'	0.0134

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$160,877
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding User-Specified Maximum

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 OFF-PEAK DAY 2 LANE CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY NORTHBOUND DIRECTION**

