

<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>OFF-PEAK DAY 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	770	0.0	OFF	770	0	0.00	0	69.8	69.8	69.8	
1-2 AM	565	0.0	OFF	565	0	0.00	0	70.0	70.0	70.0	
2-3 AM	313	0.0	OFF	313	0	0.00	0	70.2	70.2	70.2	
3-4 AM	224	0.0	OFF	224	0	0.00	0	70.2	70.2	70.2	
4-5 AM	257	0.0	OFF	257	0	0.00	0	70.2	70.2	70.2	
5-6 AM	396	0.0	OFF	396	0	0.00	0	70.2	70.2	70.2	
6-7 AM	746	0.0	OFF	746	0	0.00	0	69.8	69.8	69.8	
7-8 AM	884	0.0	OFF	884	0	0.00	0	69.6	69.6	69.6	
8-9 AM	1440	0.0	OFF	1440	0	0.00	0	68.9	68.9	68.9	
9-10 AM	2212	0.0	2999	2212	0	0.34	0	68.0	62.7	49.2	
10-11 AM	3142	0.0	2999	3142	0	1.36	42	66.8	50.2	37.7	
11AM-NOON	3799	0.0	3000	3760	39	9.34+	535	64.9	20.3	37.3	
NOON-1PM	4054	0.0	3000	2934	1120	14.88+	793	63.2	14.3	37.3	
1-2 PM	3988	0.0	3000	3000	988	15.03+	800	63.6	14.2	37.3	
2-3 PM	4246	0.0	3000	3000	1246	14.90+	800	61.9	14.2	37.3	
3-4 PM	3963	0.0	3000	3000	963	15.04+	800	63.8	14.2	37.3	
4-5 PM	4017	0.0	3000	3000	1017	15.01+	800	63.4	14.2	37.3	
5-6 PM	3833	0.0	3000	3000	833	15.10+	800	64.6	14.2	37.3	
6-7 PM	3369	0.0	2999	2952	417	15.12+	794	66.6	14.3	37.3	
7-8 PM	2886	0.0	OFF	2886	0	1.17	107	67.1	52.2	52.2	
8-9 PM	2411	0.0	OFF	2411	0	0.00	0	67.8	67.8	67.8	
9-10 PM	1687	0.0	OFF	1687	0	0.00	0	68.6	68.6	68.6	
10-11 PM	1203	0.0	OFF	1203	0	0.00	0	69.2	69.2	69.2	
11PM-MID	595	0.0	OFF	595	0	0.00	0	70.0	70.0	70.0	

"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	0.0373
MAIN ROUTE WITH WORKS	0.0305
'DIVERSION'	0.0112
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$125,527
CONGESTED HOURS PER DAY*	8

\*Delays Exceeding User-Specified Maximum

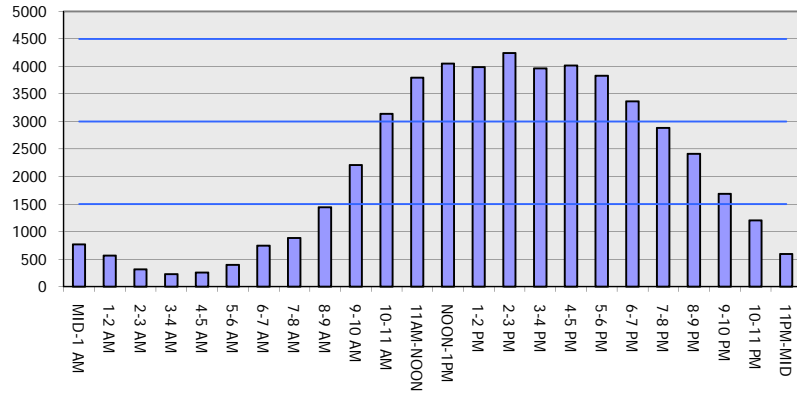
**USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)**  
**OFF-PEAK DAY CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

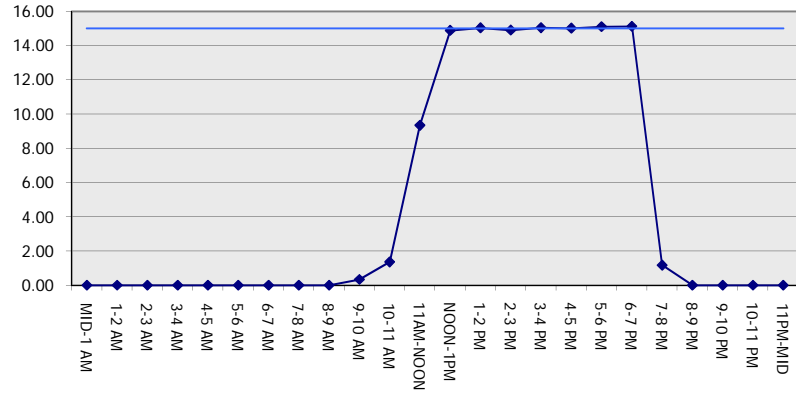
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY SOUTHBOUND DIRECTION**

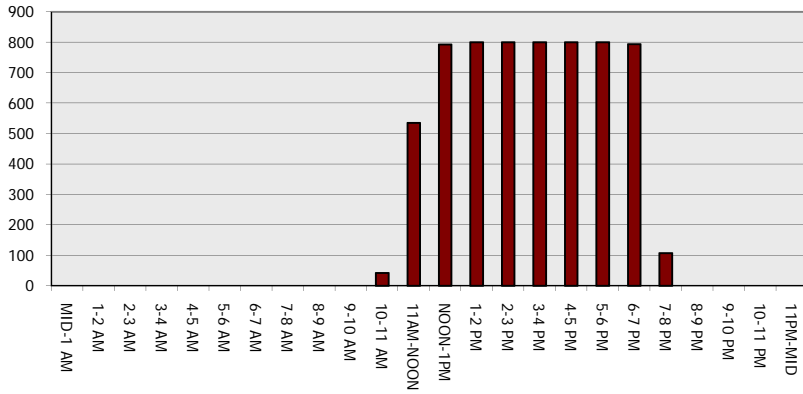
**Main Route - Traffic Demand (Vehicles Per Hour)**



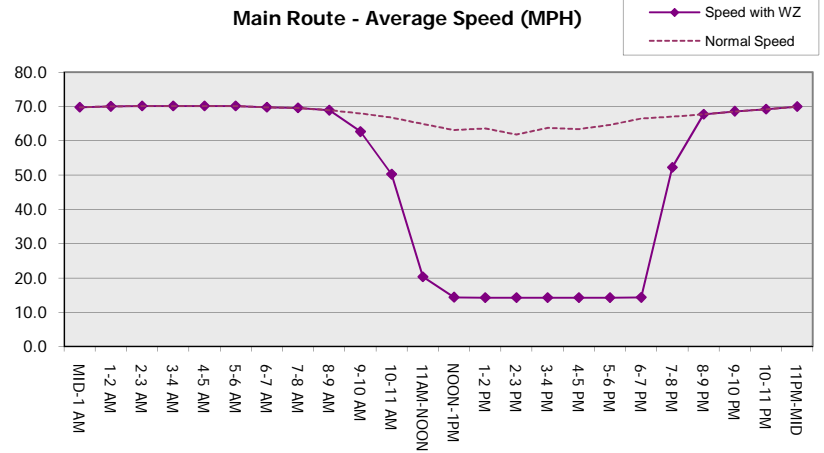
**Main Route Average Delay Per Vehicle (Minutes)**



**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	807	0.0	OFF	807	0	0.00	0	69.7	69.7	69.7
1-2 AM	503	0.0	OFF	503	0	0.00	0	70.1	70.1	70.1
2-3 AM	359	0.0	OFF	359	0	0.00	0	70.2	70.2	70.2
3-4 AM	219	0.0	OFF	219	0	0.00	0	70.2	70.2	70.2
4-5 AM	178	0.0	OFF	178	0	0.00	0	70.2	70.2	70.2
5-6 AM	364	0.0	OFF	364	0	0.00	0	70.2	70.2	70.2
6-7 AM	582	0.0	OFF	582	0	0.00	0	70.0	70.0	70.0
7-8 AM	897	0.0	OFF	897	0	0.00	0	69.6	69.6	69.6
8-9 AM	1279	0.0	OFF	1279	0	0.00	0	69.1	69.1	69.1
9-10 AM	1864	0.0	3000	1864	0	0.34	0	68.4	63.2	49.7
10-11 AM	2441	0.0	3000	2441	0	0.36	0	67.7	62.2	48.3
11AM-NOON	2821	0.0	2999	2821	0	0.61	0	67.3	58.5	40.2
NOON-1PM	3110	0.0	2999	3110	0	1.48	43	66.9	49.2	37.3
1-2 PM	3174	0.0	3000	3174	0	4.23	197	66.8	33.0	37.3
2-3 PM	3078	0.0	2999	3078	0	6.59	324	66.9	25.7	37.3
3-4 PM	3129	0.0	3000	3129	0	8.24	416	66.8	22.3	37.3
4-5 PM	3413	0.0	3000	3315	98	12.93+	684	66.5	16.1	37.3
5-6 PM	3127	0.0	3000	2991	136	15.22+	798	66.8	14.3	37.3
6-7 PM	2526	0.0	2999	2526	0	11.09+	592	67.6	18.2	37.8
7-8 PM	2091	0.0	OFF	2091	0	0.16	13	68.1	65.6	65.6
8-9 PM	1727	0.0	OFF	1727	0	0.00	0	68.6	68.6	68.6
9-10 PM	1450	0.0	OFF	1450	0	0.00	0	68.9	68.9	68.9
10-11 PM	1173	0.0	OFF	1173	0	0.00	0	69.3	69.3	69.3
11PM-MID	710	0.0	OFF	710	0	0.00	0	69.9	69.9	69.9

"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	0.0300
MAIN ROUTE WITH WORKS	0.0280
'DIVERSION'	0.0004

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$51,573
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

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

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

