

<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>NIGHTTIME CLOSURE</b> <b>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	431	0.0	3000	431	0	0.36	0	70.2	64.3	49.7
1-2 AM	281	0.0	3000	281	0	0.36	0	70.2	64.3	49.7
2-3 AM	307	0.0	3000	307	0	0.36	0	70.2	64.3	49.7
3-4 AM	419	0.0	3000	419	0	0.36	0	70.2	64.3	49.7
4-5 AM	818	0.0	3000	818	0	0.35	0	69.7	64.0	49.7
5-6 AM	2735	0.0	OFF	2735	0	0.00	0	67.3	67.3	67.3
6-7 AM	5613	0.0	OFF	5613	0	0.00	0	52.5	52.5	52.5
7-8 AM	6113	0.0	OFF	6113	0	0.00	0	49.1	49.1	49.1
8-9 AM	4053	0.0	OFF	4053	0	0.00	0	63.2	63.2	63.2
9-10 AM	3216	0.0	OFF	3216	0	0.00	0	66.8	66.8	66.8
10-11 AM	3174	0.0	OFF	3174	0	0.00	0	66.8	66.8	66.8
11AM-NOON	3268	0.0	OFF	3268	0	0.00	0	66.7	66.7	66.7
NOON-1PM	3544	0.0	OFF	3544	0	0.00	0	66.3	66.3	66.3
1-2 PM	3554	0.0	OFF	3554	0	0.00	0	66.3	66.3	66.3
2-3 PM	3990	0.0	OFF	3990	0	0.00	0	63.6	63.6	63.6
3-4 PM	4179	0.0	OFF	4179	0	0.00	0	62.3	62.3	62.3
4-5 PM	4181	0.0	OFF	4181	0	0.00	0	62.3	62.3	62.3
5-6 PM	3858	0.0	OFF	3858	0	0.00	0	64.5	64.5	64.5
6-7 PM	3307	0.0	OFF	3307	0	0.00	0	66.6	66.6	66.6
7-8 PM	2340	0.0	3000	2340	0	0.33	0	67.8	62.7	49.7
8-9 PM	1801	0.0	3000	1801	0	0.34	0	68.5	63.2	49.7
9-10 PM	1750	0.0	3000	1750	0	0.34	0	68.6	63.2	49.7
10-11 PM	1421	0.0	3000	1421	0	0.34	0	69.0	63.5	49.7
11PM-MID	1133	0.0	3000	1133	0	0.35	0	69.3	63.7	49.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

*----- 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	0.0479
MAIN ROUTE WITH WORKS	0.0472
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$752
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding User-Specified Maximum

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

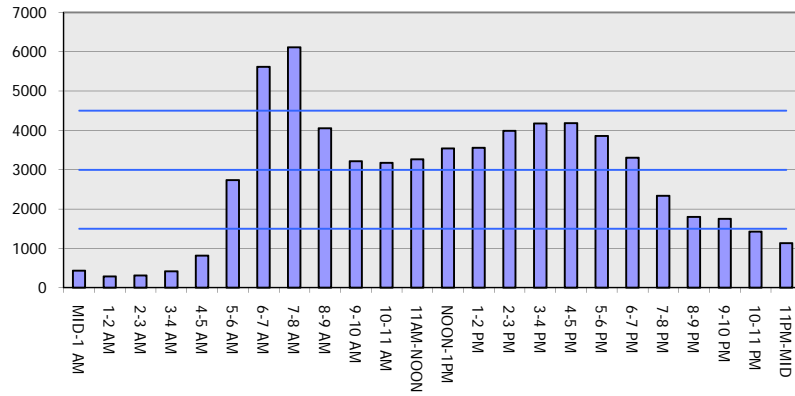
**OCTOBER**

Analyzed for 2009  
 Construction Season

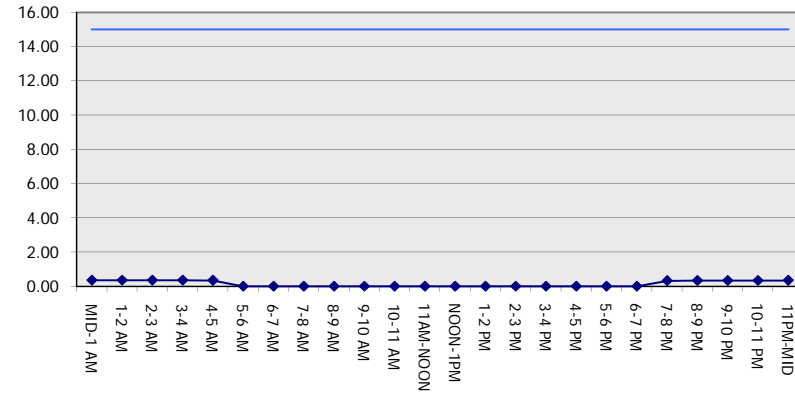
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY SOUTHBOUND DIRECTION**

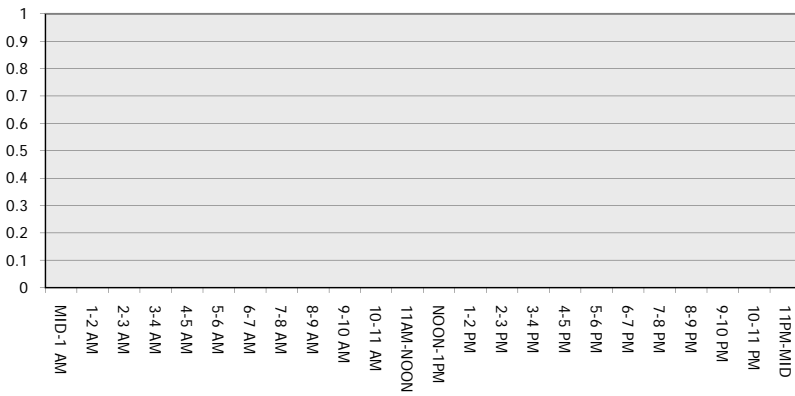
**Main Route - Traffic Demand (Vehicles Per Hour)**



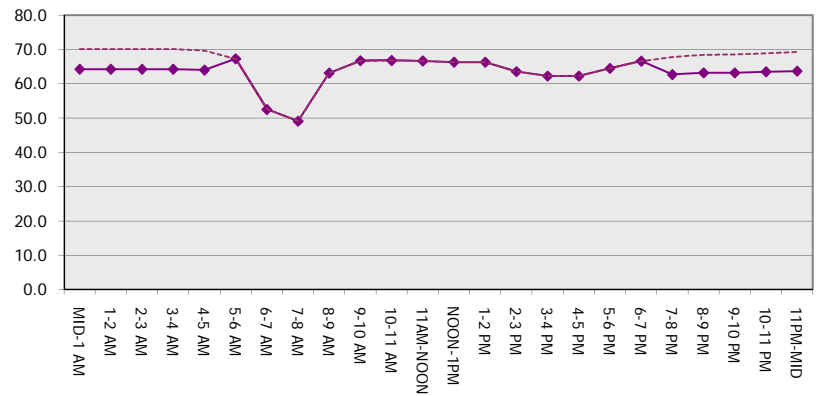
**Main Route Average Delay Per Vehicle (Minutes)**



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



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



<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>NIGHTTIME CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**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	519	0.0	3000	519	0	0.36	0	70.1	64.2	49.7
1-2 AM	362	0.0	3000	362	0	0.36	0	70.2	64.3	49.7
2-3 AM	345	0.0	3000	345	0	0.36	0	70.2	64.3	49.7
3-4 AM	369	0.0	3000	369	0	0.36	0	70.2	64.3	49.7
4-5 AM	724	0.0	3000	724	0	0.35	0	69.9	64.1	49.7
5-6 AM	1729	0.0	OFF	1729	0	0.00	0	68.6	68.6	68.6
6-7 AM	2941	0.0	OFF	2941	0	0.00	0	67.1	67.1	67.1
7-8 AM	3181	0.0	OFF	3181	0	0.00	0	66.8	66.8	66.8
8-9 AM	2872	0.0	OFF	2872	0	0.00	0	67.2	67.2	67.2
9-10 AM	2809	0.0	OFF	2809	0	0.00	0	67.3	67.3	67.3
10-11 AM	3172	0.0	OFF	3172	0	0.00	0	66.8	66.8	66.8
11AM-NOON	3665	0.0	OFF	3665	0	0.00	0	65.8	65.8	65.8
NOON-1PM	3989	0.0	OFF	3989	0	0.00	0	63.6	63.6	63.6
1-2 PM	4238	0.0	OFF	4238	0	0.00	0	61.9	61.9	61.9
2-3 PM	5172	0.0	OFF	5172	0	0.00	0	55.5	55.5	55.5
3-4 PM	6397	0.0	OFF	6397	0	0.00	0	47.1	47.1	47.1
4-5 PM	7251	0.0	OFF	7251	0	0.00	0	41.3	41.3	41.3
5-6 PM	6002	0.0	OFF	6002	0	0.00	0	49.9	49.9	49.9
6-7 PM	4275	0.0	OFF	4275	0	0.00	0	61.7	61.7	61.7
7-8 PM	2744	0.0	2999	2744	0	0.56	0	67.3	59.2	42.2
8-9 PM	2202	0.0	3000	2202	0	0.33	0	68.0	62.8	49.7
9-10 PM	2192	0.0	3000	2192	0	0.33	0	68.0	62.8	49.7
10-11 PM	1592	0.0	3000	1592	0	0.34	0	68.7	63.3	49.7
11PM-MID	1146	0.0	3000	1146	0	0.35	0	69.3	63.7	49.7

**"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)**

**WARNING: THE DEMAND FLOW IN ONE OR MORE HOURS EXCEEDS THE THEORETICAL CAPACITY OF THE MAIN ROUTE \*WITHOUT\* CONSTRUCTION**

*----- 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	0.0511
MAIN ROUTE WITH WORKS	0.0503
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$977
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding User-Specified Maximum

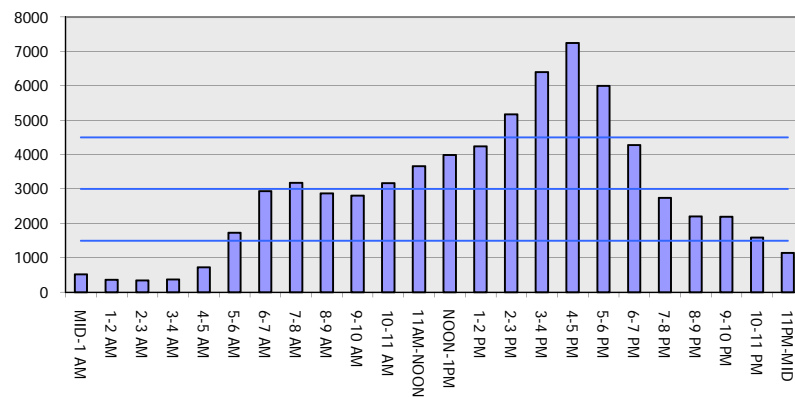
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**NIGHTTIME CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

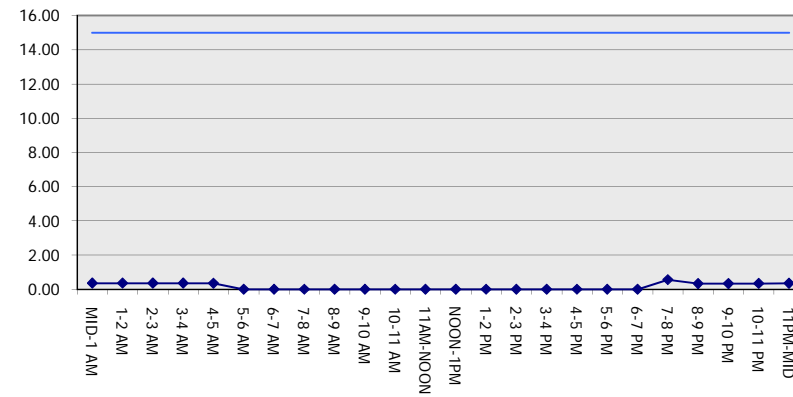
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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

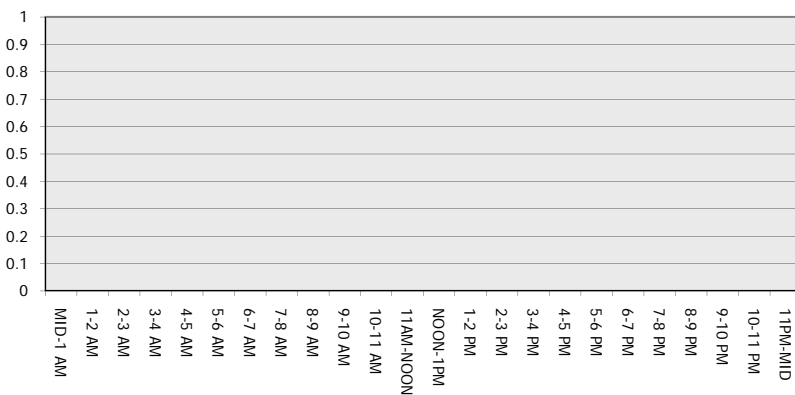
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

