

<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**

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	410	0.0	OFF	410	0	0.00	0	70.2	70.2	70.2
1-2 AM	257	0.0	OFF	257	0	0.00	0	70.2	70.2	70.2
2-3 AM	271	0.0	OFF	271	0	0.00	0	70.2	70.2	70.2
3-4 AM	413	0.0	OFF	413	0	0.00	0	70.2	70.2	70.2
4-5 AM	913	0.0	OFF	913	0	0.00	0	69.6	69.6	69.6
5-6 AM	2870	0.0	OFF	2870	0	0.00	0	67.2	67.2	67.2
6-7 AM	5761	0.0	OFF	5761	0	0.00	0	51.5	51.5	51.5
7-8 AM	6563	0.0	OFF	6563	0	0.00	0	46.0	46.0	46.0
8-9 AM	4288	0.0	OFF	4288	0	0.00	0	61.5	61.5	61.5
9-10 AM	3361	0.0	OFF	3361	0	0.00	0	66.6	66.6	66.6
10-11 AM	3197	0.0	2999	3197	0	2.45	102	66.8	41.9	37.3
11AM-NOON	3235	0.0	3000	3235	0	6.20	309	66.7	26.7	37.3
NOON-1PM	3367	0.0	3000	3367	0	11.60+	612	66.6	17.5	37.3
1-2 PM	3344	0.0	2999	3000	344	15.22+	799	66.6	14.2	37.3
2-3 PM	3822	0.0	3000	3000	822	15.10+	800	64.8	14.2	37.3
3-4 PM	4142	0.0	OFF	4142	0	2.14	171	62.5	42.1	42.1
4-5 PM	4070	0.0	OFF	4070	0	0.00	0	63.0	63.0	63.0
5-6 PM	3583	0.0	OFF	3583	0	0.00	0	66.3	66.3	66.3
6-7 PM	2711	0.0	OFF	2711	0	0.00	0	67.4	67.4	67.4
7-8 PM	2059	0.0	OFF	2059	0	0.00	0	68.2	68.2	68.2
8-9 PM	1830	0.0	OFF	1830	0	0.00	0	68.4	68.4	68.4
9-10 PM	1493	0.0	OFF	1493	0	0.00	0	68.9	68.9	68.9
10-11 PM	1178	0.0	OFF	1178	0	0.00	0	69.2	69.2	69.2
11PM-MID	876	0.0	OFF	876	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

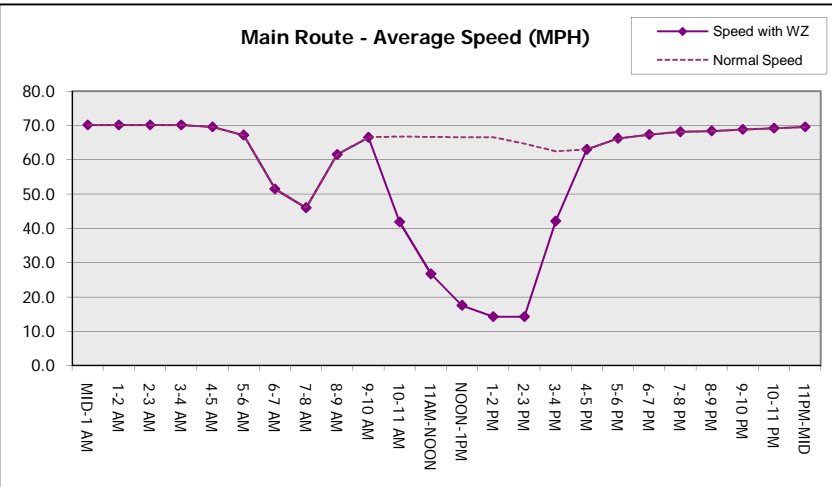
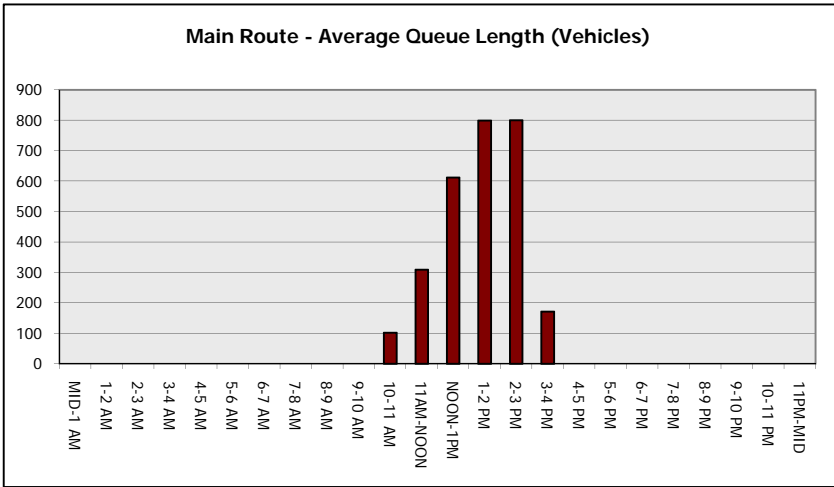
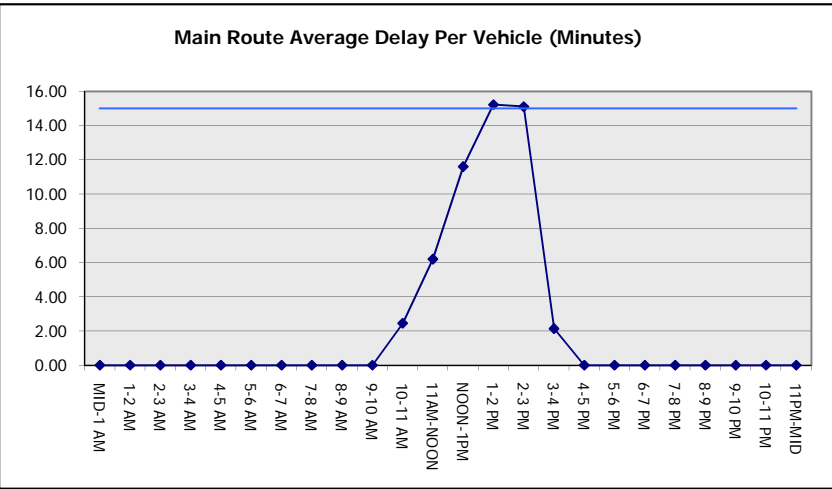
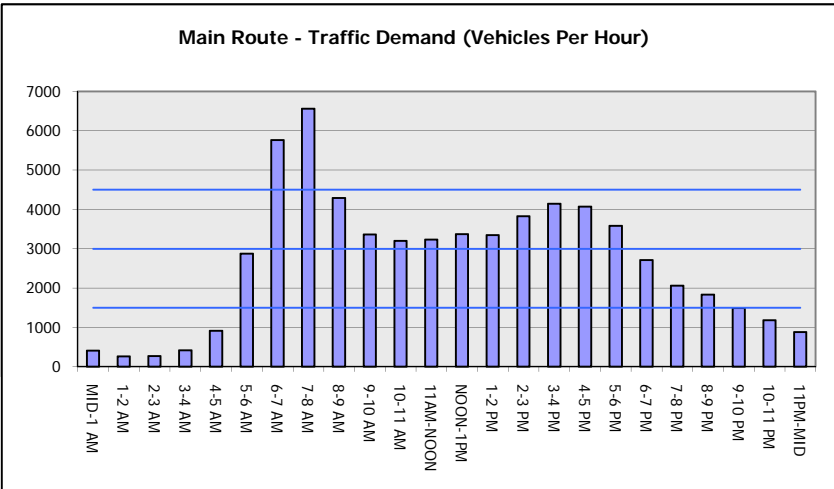
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0468
MAIN ROUTE WITH WORKS	0.0449
'DIVERSION'	0.0020
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$25,132
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

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

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



<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**

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	532	0.0	OFF	532	0	0.00	0	70.0	70.0	70.0
1-2 AM	325	0.0	OFF	325	0	0.00	0	70.2	70.2	70.2
2-3 AM	269	0.0	OFF	269	0	0.00	0	70.2	70.2	70.2
3-4 AM	295	0.0	OFF	295	0	0.00	0	70.2	70.2	70.2
4-5 AM	677	0.0	OFF	677	0	0.00	0	69.9	69.9	69.9
5-6 AM	1749	0.0	OFF	1749	0	0.00	0	68.6	68.6	68.6
6-7 AM	3031	0.0	OFF	3031	0	0.00	0	66.9	66.9	66.9
7-8 AM	3134	0.0	OFF	3134	0	0.00	0	66.8	66.8	66.8
8-9 AM	2758	0.0	OFF	2758	0	0.00	0	67.3	67.3	67.3
9-10 AM	2598	0.0	OFF	2598	0	0.00	0	67.5	67.5	67.5
10-11 AM	2766	0.0	2999	2766	0	0.58	0	67.3	59.0	41.2
11AM-NOON	3005	0.0	2999	3005	0	0.83	6	67.0	55.8	37.6
NOON-1PM	3135	0.0	3000	3135	0	2.10	79	66.8	44.3	37.3
1-2 PM	3442	0.0	3000	3442	0	6.42	338	66.4	26.1	37.3
2-3 PM	4519	0.0	2999	3144	1376	14.49+	785	60.0	14.5	37.3
3-4 PM	5551	0.0	OFF	5551	0	5.53	521	52.9	25.6	25.6
4-5 PM	6652	0.0	OFF	6652	0	5.69	622	45.4	23.5	23.5
5-6 PM	6043	0.0	OFF	6043	0	9.67	970	49.6	18.1	18.1
6-7 PM	3521	0.0	OFF	3521	0	2.42	198	66.4	41.9	41.9
7-8 PM	2416	0.0	OFF	2416	0	0.00	0	67.8	67.8	67.8
8-9 PM	2039	0.0	OFF	2039	0	0.00	0	68.2	68.2	68.2
9-10 PM	1740	0.0	OFF	1740	0	0.00	0	68.6	68.6	68.6
10-11 PM	1527	0.0	OFF	1527	0	0.00	0	68.8	68.8	68.8
11PM-MID	970	0.0	OFF	970	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	0.0459
MAIN ROUTE WITH WORKS	0.0438
'DIVERSION'	0.0023

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$31,856
CONGESTED HOURS PER DAY*	1

\*Delays Exceeding User-Specified Maximum

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**MON-THUR NORTHBOUND DIRECTION**

