

<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>MAY</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	459	0.0	OFF	459	0	0.00	0	70.2	70.2	70.2
1-2 AM	320	0.0	OFF	320	0	0.00	0	70.2	70.2	70.2
2-3 AM	294	0.0	OFF	294	0	0.00	0	70.2	70.2	70.2
3-4 AM	383	0.0	OFF	383	0	0.00	0	70.2	70.2	70.2
4-5 AM	829	0.0	OFF	829	0	0.00	0	69.7	69.7	69.7
5-6 AM	2611	0.0	OFF	2611	0	0.00	0	67.5	67.5	67.5
6-7 AM	5252	0.0	OFF	5252	0	0.00	0	55.0	55.0	55.0
7-8 AM	6164	0.0	OFF	6164	0	0.00	0	48.7	48.7	48.7
8-9 AM	3986	0.0	OFF	3986	0	0.00	0	63.7	63.7	63.7
9-10 AM	3214	0.0	OFF	3214	0	0.00	0	66.8	66.8	66.8
10-11 AM	3010	0.0	2999	3010	0	0.82	5	67.0	55.8	37.3
11AM-NOON	3214	0.0	3000	3214	0	2.51	106	66.8	41.5	37.3
NOON-1PM	3356	0.0	3000	3356	0	7.66	397	66.6	23.3	37.3
1-2 PM	3397	0.0	2999	3166	231	13.88+	731	66.5	15.3	37.3
2-3 PM	3876	0.0	3000	3000	876	15.08+	800	64.4	14.2	37.3
3-4 PM	4352	0.0	OFF	4352	0	2.10	169	61.1	41.7	41.7
4-5 PM	4277	0.0	OFF	4277	0	0.00	0	61.7	61.7	61.7
5-6 PM	3985	0.0	OFF	3985	0	0.00	0	63.7	63.7	63.7
6-7 PM	3146	0.0	OFF	3146	0	0.00	0	66.8	66.8	66.8
7-8 PM	2322	0.0	OFF	2322	0	0.00	0	67.9	67.9	67.9
8-9 PM	1878	0.0	OFF	1878	0	0.00	0	68.4	68.4	68.4
9-10 PM	1780	0.0	OFF	1780	0	0.00	0	68.5	68.5	68.5
10-11 PM	1424	0.0	OFF	1424	0	0.00	0	69.0	69.0	69.0
11PM-MID	1137	0.0	OFF	1137	0	0.00	0	69.3	69.3	69.3

"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

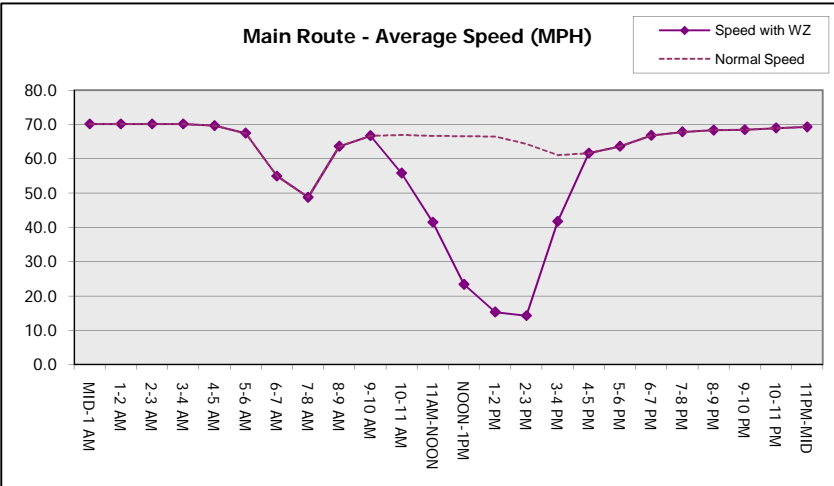
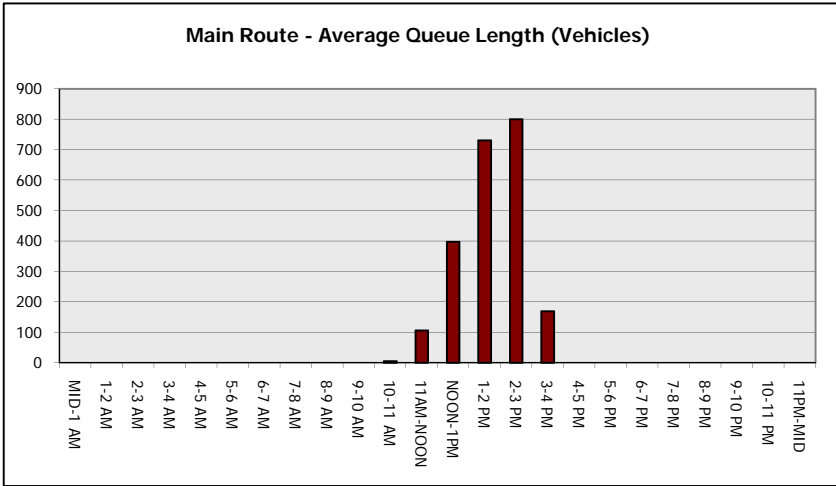
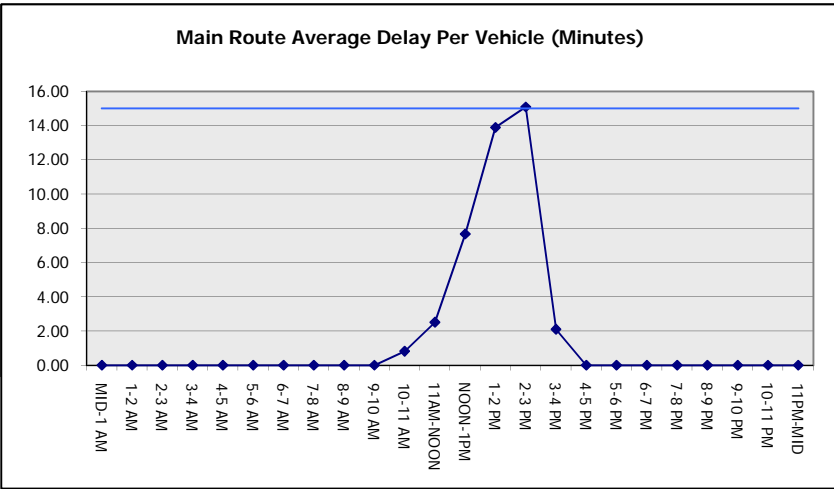
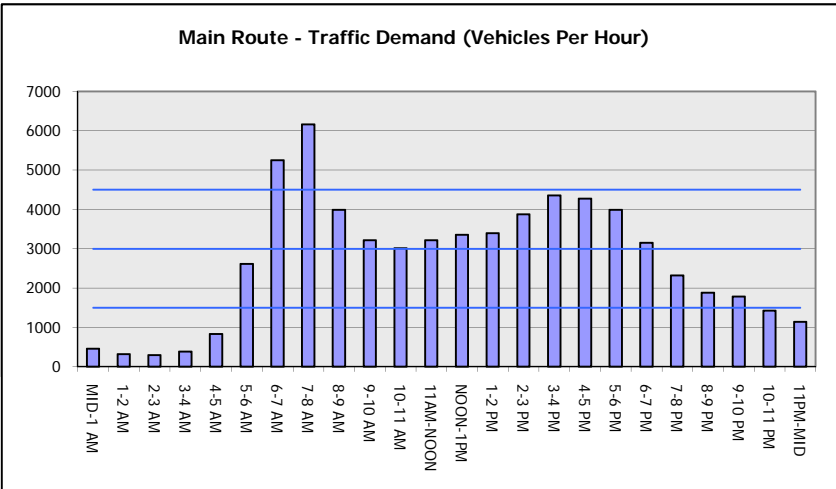
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0473
MAIN ROUTE WITH WORKS	0.0455
'DIVERSION'	0.0019
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$15,408
CONGESTED HOURS PER DAY*	2

\*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)**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY 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>MAY</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	582	0.0	OFF	582	0	0.00	0	70.0	70.0	70.0
1-2 AM	363	0.0	OFF	363	0	0.00	0	70.2	70.2	70.2
2-3 AM	315	0.0	OFF	315	0	0.00	0	70.2	70.2	70.2
3-4 AM	355	0.0	OFF	355	0	0.00	0	70.2	70.2	70.2
4-5 AM	669	0.0	OFF	669	0	0.00	0	69.9	69.9	69.9
5-6 AM	1700	0.0	OFF	1700	0	0.00	0	68.6	68.6	68.6
6-7 AM	3253	0.0	OFF	3253	0	0.00	0	66.7	66.7	66.7
7-8 AM	3187	0.0	OFF	3187	0	0.00	0	66.8	66.8	66.8
8-9 AM	2919	0.0	OFF	2919	0	0.00	0	67.1	67.1	67.1
9-10 AM	3037	0.0	OFF	3037	0	0.00	0	66.9	66.9	66.9
10-11 AM	3201	0.0	2999	3201	0	2.07	81	66.8	44.5	37.3
11AM-NOON	3638	0.0	3000	3638	0	8.98	496	66.0	20.9	37.3
NOON-1PM	3949	0.0	2999	3000	949	15.04+	799	63.9	14.2	37.3
1-2 PM	4193	0.0	3000	3000	1193	14.93+	800	62.2	14.2	37.3
2-3 PM	5191	0.0	3000	3000	2191	14.38+	800	55.4	14.2	37.3
3-4 PM	6328	0.0	OFF	6328	0	9.77	1003	47.6	17.7	17.7
4-5 PM	7122	0.0	OFF	7122	0	16.28	1728	42.2	12.1	12.1
5-6 PM	6305	0.0	OFF	6305	0	24.18	2442	47.8	9.2	9.2
6-7 PM	4137	0.0	OFF	4137	0	17.76	1663	62.6	12.4	12.4
7-8 PM	2955	0.0	OFF	2955	0	0.97	88	67.1	54.3	54.3
8-9 PM	2306	0.0	OFF	2306	0	0.00	0	67.9	67.9	67.9
9-10 PM	2214	0.0	OFF	2214	0	0.00	0	68.0	68.0	68.0
10-11 PM	2035	0.0	OFF	2035	0	0.00	0	68.2	68.2	68.2
11PM-MID	1313	0.0	OFF	1313	0	0.00	0	69.1	69.1	69.1

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC) + INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT  
 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	0.0522
MAIN ROUTE WITH WORKS	0.0479
'DIVERSION'	0.0073
PIA: Personal Injury Accidents	
ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$65,568
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

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

**MAY**  
 Analyzed for 2009  
 Construction Season

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

