

<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>MAY</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	385	0.0	3000	385	0	0.36	0	70.2	64.3	49.7
1-2 AM	243	0.0	3000	243	0	0.36	0	70.2	64.3	49.7
2-3 AM	235	0.0	3000	235	0	0.36	0	70.2	64.3	49.7
3-4 AM	381	0.0	3000	381	0	0.36	0	70.2	64.3	49.7
4-5 AM	814	0.0	3000	814	0	0.35	0	69.7	64.0	49.7
5-6 AM	2664	0.0	2999	2664	0	0.97	31	67.4	54.5	43.5
6-7 AM	5500	0.0	3000	3681	1819	11.73+	697	53.3	16.3	42.0
7-8 AM	6342	0.0	2999	3000	3342	13.56+	799	47.5	14.2	37.3
8-9 AM	4109	0.0	3000	3000	1109	14.97+	800	62.8	14.2	37.3
9-10 AM	3074	0.0	3000	2965	109	15.13+	794	66.9	14.3	37.3
10-11 AM	2959	0.0	3000	2959	0	14.40+	753	67.1	14.9	37.3
11AM-NOON	2988	0.0	3000	2988	0	13.80	720	67.0	15.4	37.3
NOON-1PM	3077	0.0	3000	3077	0	14.38+	752	66.9	14.9	37.3
1-2 PM	3121	0.0	2999	3000	121	15.24+	799	66.9	14.2	37.3
2-3 PM	3620	0.0	3000	3000	620	15.19+	800	66.1	14.2	37.3
3-4 PM	3995	0.0	3000	3000	995	15.02+	800	63.6	14.2	37.3
4-5 PM	3945	0.0	3000	3000	945	15.05+	800	63.9	14.2	37.3
5-6 PM	3502	0.0	3000	3000	502	15.21+	800	66.4	14.2	37.3
6-7 PM	2653	0.0	2999	2653	0	12.70+	669	67.4	16.4	37.3
7-8 PM	1976	0.0	3000	1976	0	1.63	110	68.2	48.7	48.9
8-9 PM	1711	0.0	3000	1711	0	0.34	0	68.6	63.3	49.7
9-10 PM	1465	0.0	3000	1465	0	0.34	0	68.9	63.5	49.7
10-11 PM	1128	0.0	3000	1128	0	0.35	0	69.3	63.7	49.7
11PM-MID	834	0.0	3000	834	0	0.35	0	69.7	64.0	49.7

+ 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

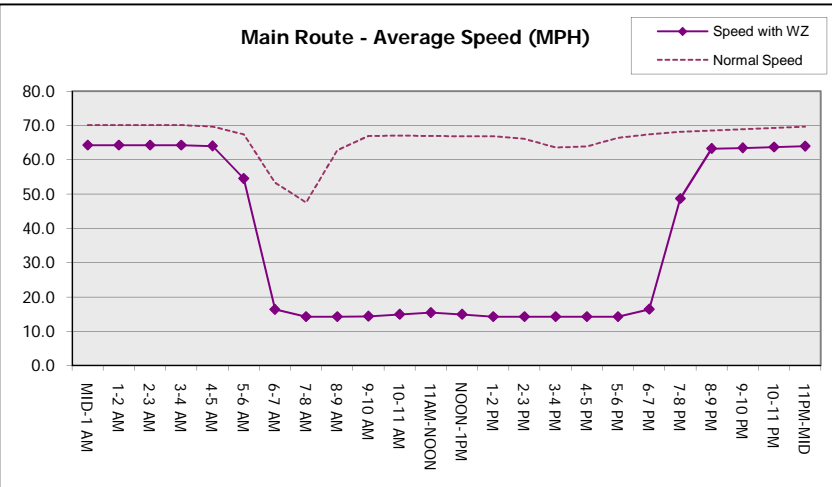
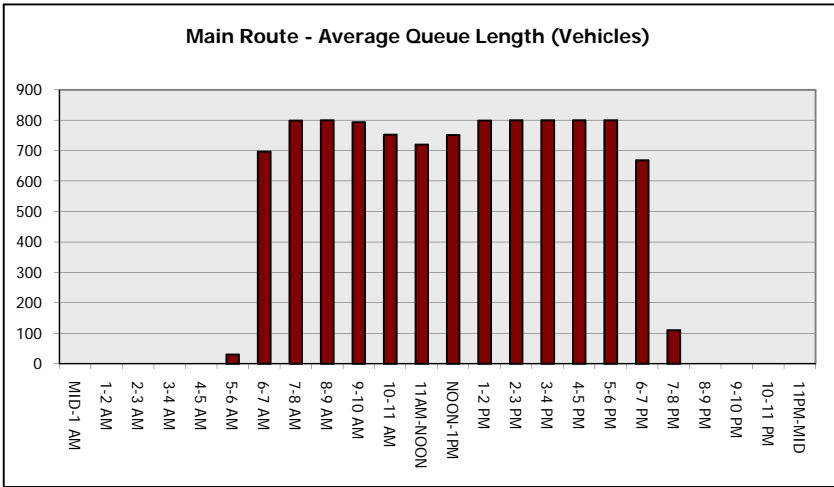
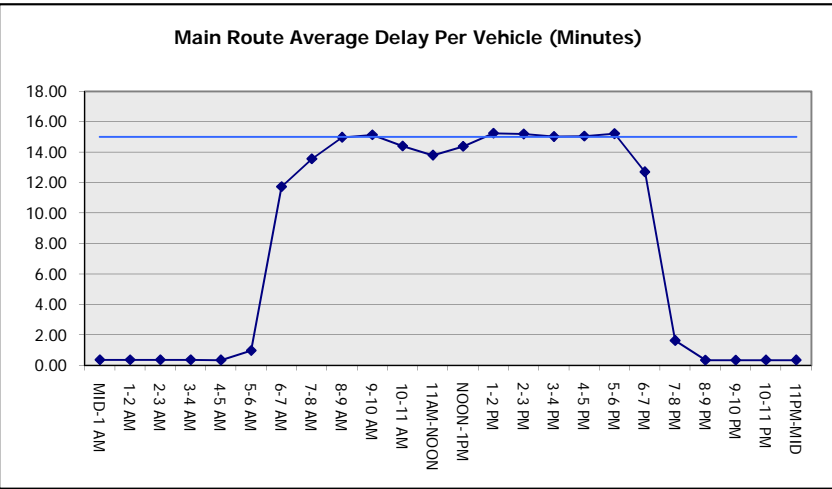
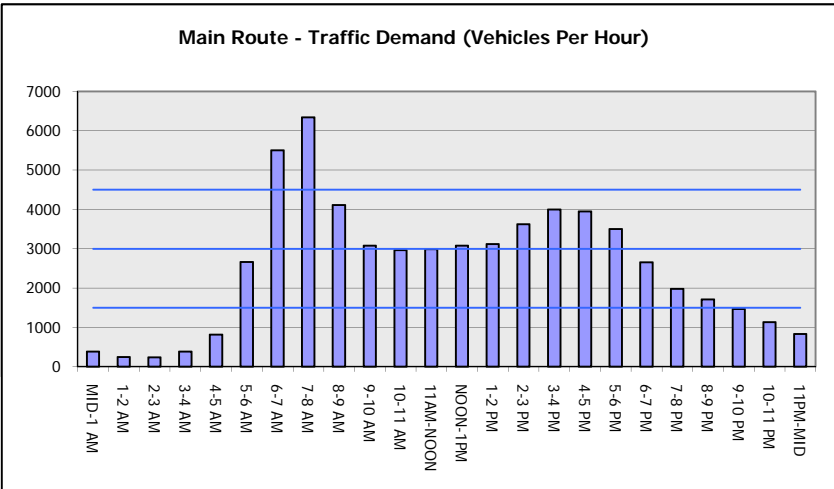
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0444
MAIN ROUTE WITH WORKS	0.0341
'DIVERSION'	0.0162
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$152,777
CONGESTED HOURS PER DAY*	12

\*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**  
**MON-THUR SOUTHBOUND DIRECTION**



<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>MAY</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	408	0.0	3000	408	0	0.36	0	70.2	64.3	49.7
1-2 AM	275	0.0	3000	275	0	0.36	0	70.2	64.3	49.7
2-3 AM	242	0.0	3000	242	0	0.36	0	70.2	64.3	49.7
3-4 AM	294	0.0	3000	294	0	0.36	0	70.2	64.3	49.7
4-5 AM	615	0.0	3000	615	0	0.36	0	70.0	64.1	49.7
5-6 AM	1694	0.0	3000	1694	0	0.34	0	68.6	63.3	49.7
6-7 AM	3052	0.0	2999	3052	0	1.13	27	66.9	52.5	38.2
7-8 AM	3029	0.0	2999	3029	0	3.14	133	66.9	38.0	37.3
8-9 AM	2765	0.0	2999	2765	0	1.46	53	67.3	49.7	40.0
9-10 AM	2470	0.0	3000	2470	0	0.38	0	67.7	61.9	47.5
10-11 AM	2546	0.0	3000	2546	0	0.43	0	67.6	61.1	45.7
11AM-NOON	2867	0.0	2999	2867	0	0.64	0	67.2	58.1	39.4
NOON-1PM	2988	0.0	2999	2988	0	0.77	3	67.0	56.4	37.6
1-2 PM	3177	0.0	2999	3177	0	1.74	62	66.8	47.0	37.3
2-3 PM	4257	0.0	3000	3488	769	10.76+	617	61.8	18.1	37.3
3-4 PM	5427	0.0	3000	3000	2427	14.24+	800	53.8	14.2	37.3
4-5 PM	6262	0.0	3000	3000	3262	13.63+	800	48.1	14.2	37.3
5-6 PM	5754	0.0	3000	3000	2754	14.01+	799	51.5	14.2	37.3
6-7 PM	3248	0.0	3000	2993	255	14.29+	749	66.7	15.0	37.3
7-8 PM	2242	0.0	2999	2242	0	5.00	338	67.9	30.4	43.5
8-9 PM	1904	0.0	3000	1904	0	0.34	0	68.4	63.1	49.7
9-10 PM	1664	0.0	3000	1664	0	0.34	0	68.7	63.3	49.7
10-11 PM	1404	0.0	3000	1404	0	0.34	0	69.0	63.5	49.7
11PM-MID	799	0.0	3000	799	0	0.35	0	69.7	64.0	49.7

+ 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	0.0435
MAIN ROUTE WITH WORKS	0.0332
'DIVERSION'	0.0160

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$82,177
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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