

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	OFF	2664	0	0.00	0	67.4	67.4	67.4
6-7 AM	5500	0.0	OFF	5500	0	0.00	0	53.3	53.3	53.3
7-8 AM	6342	0.0	OFF	6342	0	0.00	0	47.5	47.5	47.5
8-9 AM	4109	0.0	OFF	4109	0	0.00	0	62.8	62.8	62.8
9-10 AM	3074	0.0	OFF	3074	0	0.00	0	66.9	66.9	66.9
10-11 AM	2959	0.0	OFF	2959	0	0.00	0	67.1	67.1	67.1
11AM-NOON	2988	0.0	OFF	2988	0	0.00	0	67.0	67.0	67.0
NOON-1PM	3077	0.0	OFF	3077	0	0.00	0	66.9	66.9	66.9
1-2 PM	3121	0.0	OFF	3121	0	0.00	0	66.9	66.9	66.9
2-3 PM	3620	0.0	OFF	3620	0	0.00	0	66.1	66.1	66.1
3-4 PM	3995	0.0	OFF	3995	0	0.00	0	63.6	63.6	63.6
4-5 PM	3945	0.0	OFF	3945	0	0.00	0	63.9	63.9	63.9
5-6 PM	3502	0.0	OFF	3502	0	0.00	0	66.4	66.4	66.4
6-7 PM	2653	0.0	OFF	2653	0	0.00	0	67.4	67.4	67.4
7-8 PM	1976	0.0	3000	1976	0	0.34	0	68.2	63.0	49.7
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

"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	0.0444
MAIN ROUTE WITH WORKS	0.0438
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$628
CONGESTED HOURS PER DAY*	0

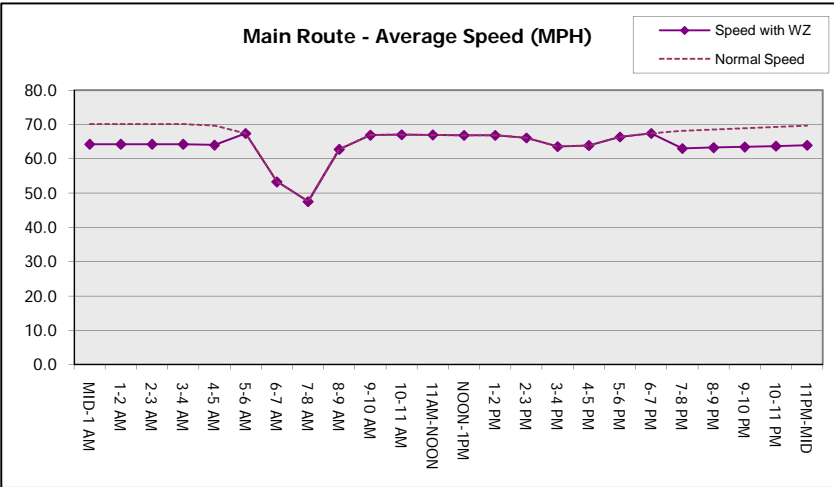
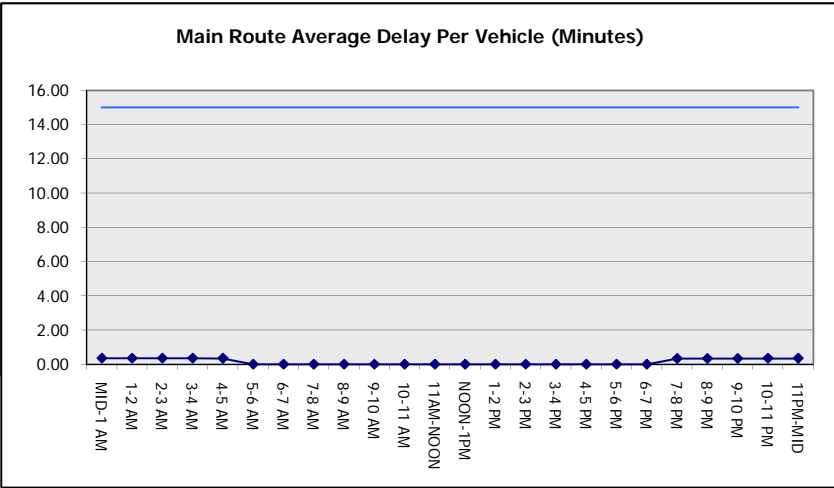
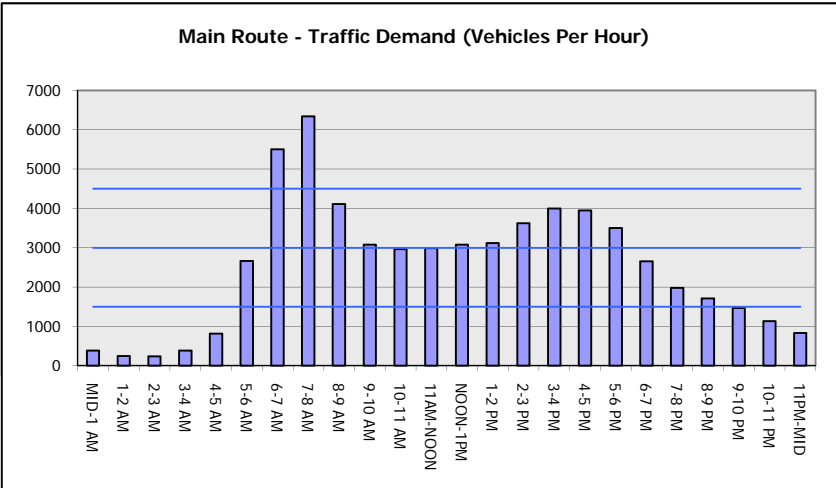
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION



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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	OFF	1694	0	0.00	0	68.6	68.6	68.6
6-7 AM	3052	0.0	OFF	3052	0	0.00	0	66.9	66.9	66.9
7-8 AM	3029	0.0	OFF	3029	0	0.00	0	66.9	66.9	66.9
8-9 AM	2765	0.0	OFF	2765	0	0.00	0	67.3	67.3	67.3
9-10 AM	2470	0.0	OFF	2470	0	0.00	0	67.7	67.7	67.7
10-11 AM	2546	0.0	OFF	2546	0	0.00	0	67.6	67.6	67.6
11AM-NOON	2867	0.0	OFF	2867	0	0.00	0	67.2	67.2	67.2
NOON-1PM	2988	0.0	OFF	2988	0	0.00	0	67.0	67.0	67.0
1-2 PM	3177	0.0	OFF	3177	0	0.00	0	66.8	66.8	66.8
2-3 PM	4257	0.0	OFF	4257	0	0.00	0	61.8	61.8	61.8
3-4 PM	5427	0.0	OFF	5427	0	0.00	0	53.8	53.8	53.8
4-5 PM	6262	0.0	OFF	6262	0	0.00	0	48.1	48.1	48.1
5-6 PM	5754	0.0	OFF	5754	0	0.00	0	51.5	51.5	51.5
6-7 PM	3248	0.0	OFF	3248	0	0.00	0	66.7	66.7	66.7
7-8 PM	2242	0.0	3000	2242	0	0.33	0	67.9	62.8	49.7
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

"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	0.0435
MAIN ROUTE WITH WORKS	0.0428
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$667
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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MON-THUR NORTHBOUND DIRECTION

