

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	1500	410	0	0.52	0	70.2	61.9	43.8	
1-2 AM	257	0.0	1500	257	0	0.50	0	70.2	62.2	44.5	
2-3 AM	271	0.0	1500	271	0	0.51	0	70.2	62.2	44.4	
3-4 AM	413	0.0	1500	413	0	0.52	0	70.2	61.9	43.8	
4-5 AM	913	0.0	1499	913	0	0.64	0	69.6	60.0	40.4	
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	OFF	3197	0	0.00	0	66.8	66.8	66.8	
11AM-NOON	3235	0.0	OFF	3235	0	0.00	0	66.7	66.7	66.7	
NOON-1PM	3367	0.0	OFF	3367	0	0.00	0	66.6	66.6	66.6	
1-2 PM	3344	0.0	OFF	3344	0	0.00	0	66.6	66.6	66.6	
2-3 PM	3822	0.0	OFF	3822	0	0.00	0	64.8	64.8	64.8	
3-4 PM	4142	0.0	OFF	4142	0	0.00	0	62.5	62.5	62.5	
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	1499	1865	194	10.60+	280	68.2	18.8	30.8	
8-9 PM	1830	0.0	1499	1507	323	16.32+	399	68.4	13.5	30.8	
9-10 PM	1493	0.0	1500	1493	0	15.94+	388	68.9	13.8	30.8	
10-11 PM	1178	0.0	1499	1178	0	8.51	223	69.2	22.1	33.2	
11PM-MID	876	0.0	1500	876	0	0.63	1	69.6	60.1	42.1	

"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	0.0459
'DIVERSION'	0.0009
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$20,245
CONGESTED HOURS PER DAY*	3

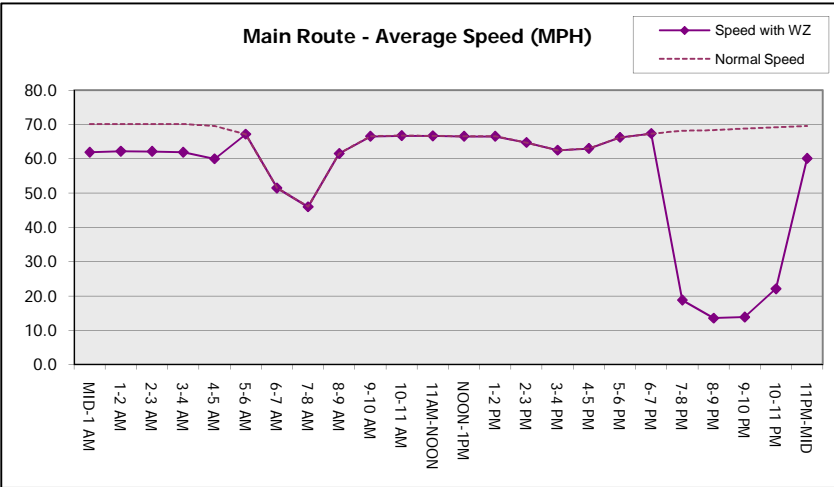
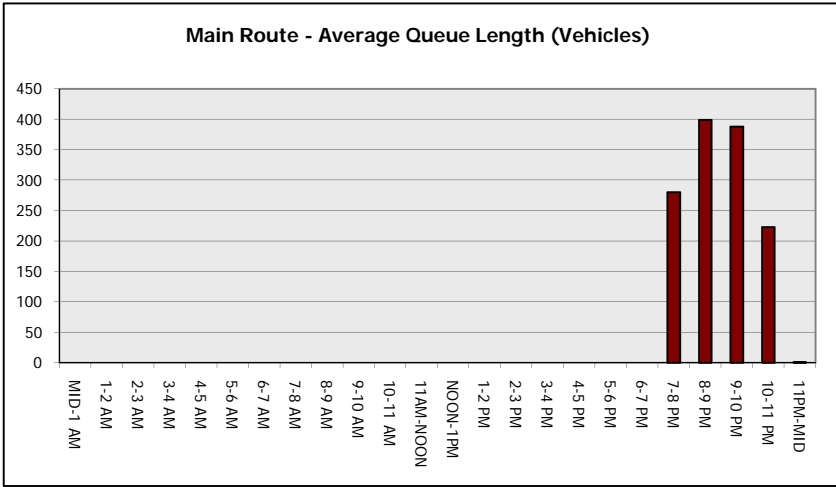
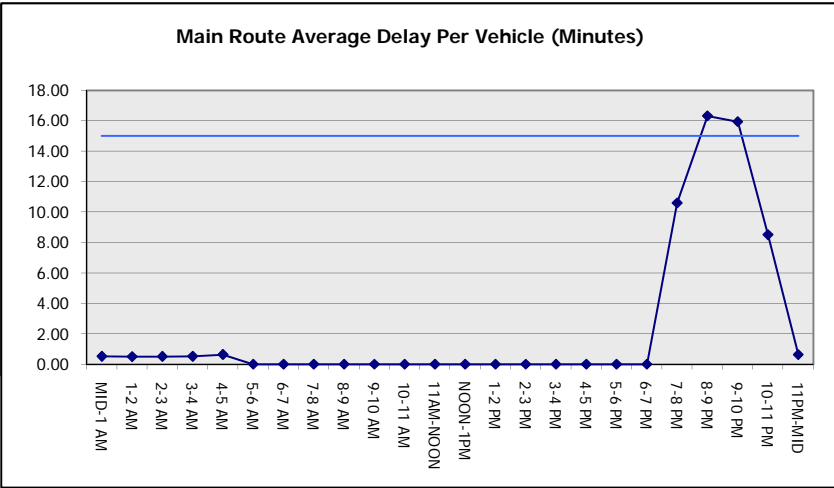
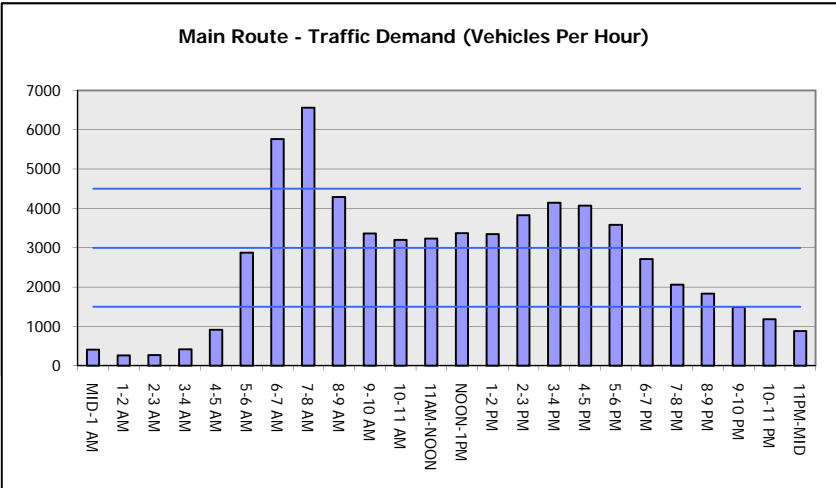
*Delays Exceeding User-Specified Maximum

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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	532	0.0	1500	532	0	0.54	0	70.0	61.7	43.4	
1-2 AM	325	0.0	1500	325	0	0.51	0	70.2	62.1	44.2	
2-3 AM	269	0.0	1500	269	0	0.51	0	70.2	62.2	44.4	
3-4 AM	295	0.0	1500	295	0	0.51	0	70.2	62.2	44.3	
4-5 AM	677	0.0	1500	677	0	0.55	0	69.9	61.3	42.8	
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	OFF	2766	0	0.00	0	67.3	67.3	67.3	
11AM-NOON	3005	0.0	OFF	3005	0	0.00	0	67.0	67.0	67.0	
NOON-1PM	3135	0.0	OFF	3135	0	0.00	0	66.8	66.8	66.8	
1-2 PM	3442	0.0	OFF	3442	0	0.00	0	66.4	66.4	66.4	
2-3 PM	4519	0.0	OFF	4519	0	0.00	0	60.0	60.0	60.0	
3-4 PM	5551	0.0	OFF	5551	0	0.00	0	52.9	52.9	52.9	
4-5 PM	6652	0.0	OFF	6652	0	0.00	0	45.4	45.4	45.4	
5-6 PM	6043	0.0	OFF	6043	0	0.00	0	49.6	49.6	49.6	
6-7 PM	3521	0.0	OFF	3521	0	0.00	0	66.4	66.4	66.4	
7-8 PM	2416	0.0	1499	1846	570	13.06+	324	67.8	16.1	33.3	
8-9 PM	2039	0.0	1499	1502	537	16.33+	399	68.2	13.5	30.8	
9-10 PM	1740	0.0	1500	1533	208	16.21+	396	68.6	13.6	30.8	
10-11 PM	1527	0.0	1500	1472	55	15.76+	384	68.8	14.0	30.8	
11PM-MID	970	0.0	1499	970	0	3.92	143	69.6	35.0	37.6	

"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	0.0443
'DIVERSION'	0.0023

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$28,285
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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