

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) OFF-PEAK DAY 2 LANE 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	OFF	385	0	0.00	0	70.2	70.2	70.2
1-2 AM	243	0.0	OFF	243	0	0.00	0	70.2	70.2	70.2
2-3 AM	235	0.0	OFF	235	0	0.00	0	70.2	70.2	70.2
3-4 AM	381	0.0	OFF	381	0	0.00	0	70.2	70.2	70.2
4-5 AM	814	0.0	OFF	814	0	0.00	0	69.7	69.7	69.7
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	1499	1579	1380	15.09+	380	67.1	14.3	36.3
11AM-NOON	2988	0.0	1499	1686	1303	14.26+	371	67.0	15.0	35.5
NOON-1PM	3077	0.0	1499	1500	1577	16.00+	399	66.9	13.7	35.7
1-2 PM	3121	0.0	1500	1500	1621	15.99+	400	66.9	13.7	35.7
2-3 PM	3620	0.0	1500	1500	2120	15.95+	400	66.1	13.7	35.7
3-4 PM	3995	0.0	OFF	3995	0	0.30	17	63.6	59.4	59.4
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	OFF	1976	0	0.00	0	68.2	68.2	68.2
8-9 PM	1711	0.0	OFF	1711	0	0.00	0	68.6	68.6	68.6
9-10 PM	1465	0.0	OFF	1465	0	0.00	0	68.9	68.9	68.9
10-11 PM	1128	0.0	OFF	1128	0	0.00	0	69.3	69.3	69.3
11PM-MID	834	0.0	OFF	834	0	0.00	0	69.7	69.7	69.7

"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	0.0444
MAIN ROUTE WITH WORKS	0.0381
'DIVERSION'	0.0136
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$51,814
CONGESTED HOURS PER DAY*	5

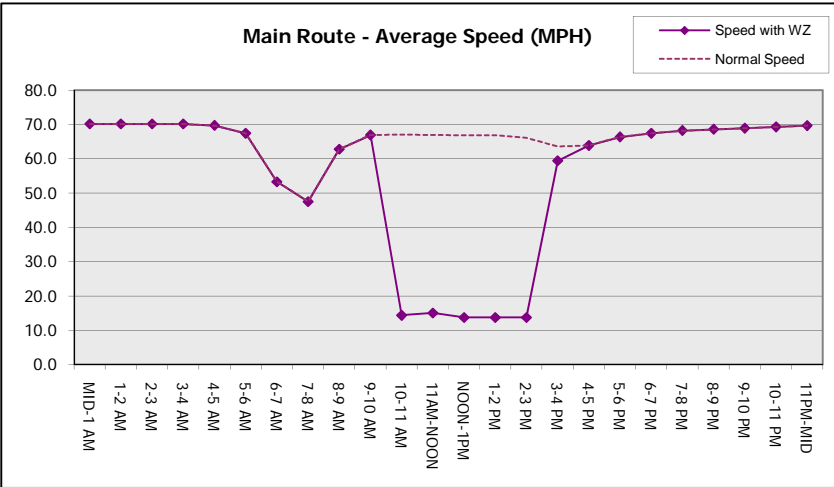
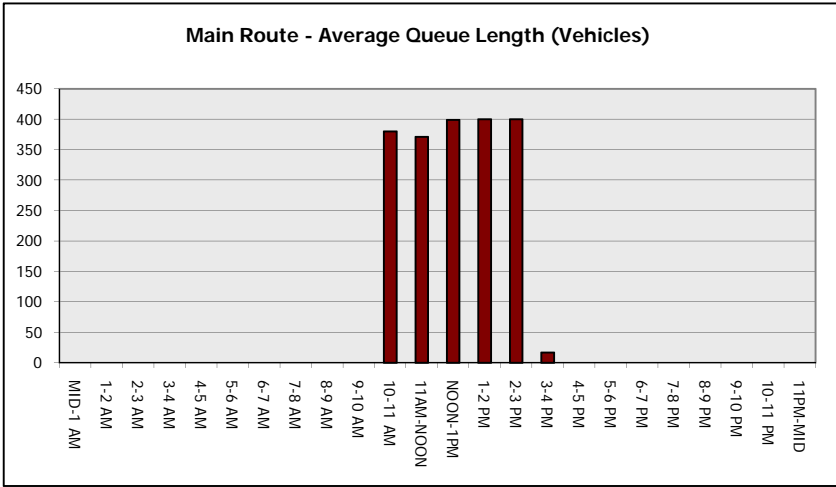
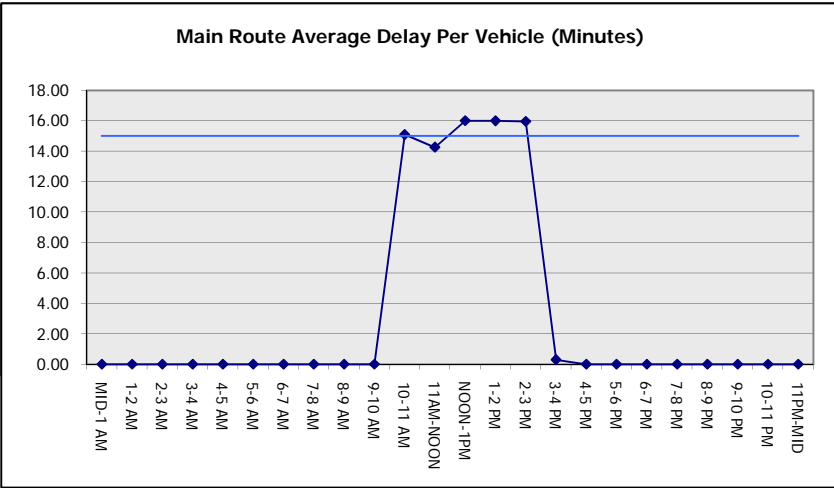
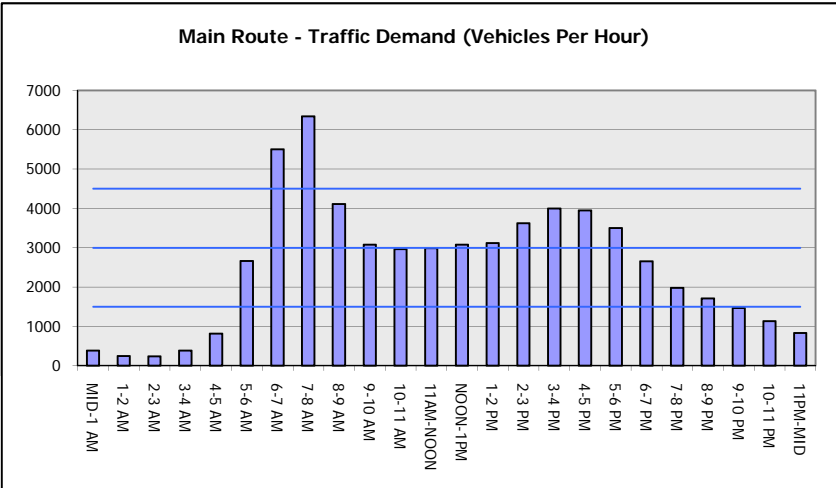
*Delays Exceeding User-Specified Maximum

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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	OFF	408	0	0.00	0	70.2	70.2	70.2
1-2 AM	275	0.0	OFF	275	0	0.00	0	70.2	70.2	70.2
2-3 AM	242	0.0	OFF	242	0	0.00	0	70.2	70.2	70.2
3-4 AM	294	0.0	OFF	294	0	0.00	0	70.2	70.2	70.2
4-5 AM	615	0.0	OFF	615	0	0.00	0	70.0	70.0	70.0
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	1499	1986	560	12.90+	323	67.6	16.2	31.5
11AM-NOON	2867	0.0	1499	1500	1367	16.24+	399	67.2	13.5	31.4
NOON-1PM	2988	0.0	1500	1500	1488	16.23+	400	67.0	13.5	31.4
1-2 PM	3177	0.0	1500	1500	1677	16.21+	400	66.8	13.5	31.4
2-3 PM	4257	0.0	1500	1500	2757	15.88+	400	61.8	13.5	31.4
3-4 PM	5427	0.0	OFF	5427	0	2.39	205	53.8	36.6	36.6
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	OFF	2242	0	0.00	0	67.9	67.9	67.9
8-9 PM	1904	0.0	OFF	1904	0	0.00	0	68.4	68.4	68.4
9-10 PM	1664	0.0	OFF	1664	0	0.00	0	68.7	68.7	68.7
10-11 PM	1404	0.0	OFF	1404	0	0.00	0	69.0	69.0	69.0
11PM-MID	799	0.0	OFF	799	0	0.00	0	69.7	69.7	69.7

"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	0.0435
MAIN ROUTE WITH WORKS	0.0372
'DIVERSION'	0.0133

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$54,905
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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MON-THUR NORTHBOUND DIRECTION

