

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

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	3000	2959	0	0.70	0	67.1	57.3	37.9
11AM-NOON	2988	0.0	2999	2988	0	0.73	0	67.0	56.9	37.4
NOON-1PM	3077	0.0	3000	3077	0	1.36	36	66.9	50.4	37.3
1-2 PM	3121	0.0	2999	3121	0	2.90	122	66.9	39.2	37.3
2-3 PM	3620	0.0	3000	3620	0	8.77	483	66.1	21.3	37.3
3-4 PM	3995	0.0	OFF	3995	0	2.10	167	63.6	42.8	42.8
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)

----- 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

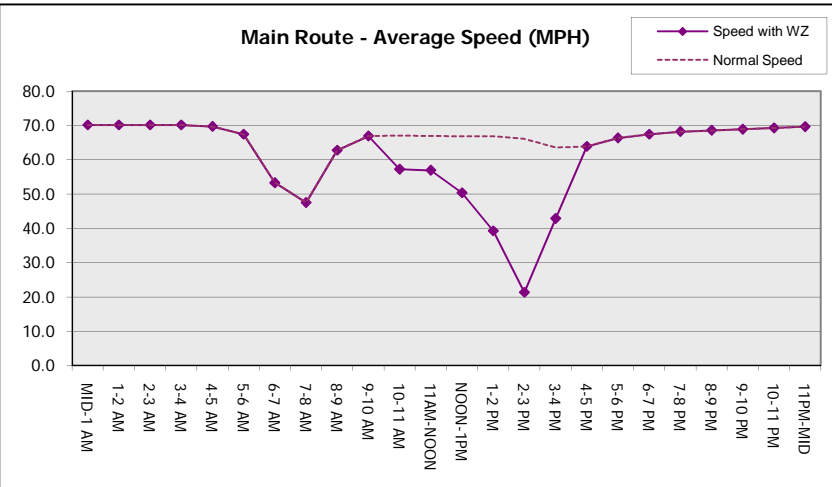
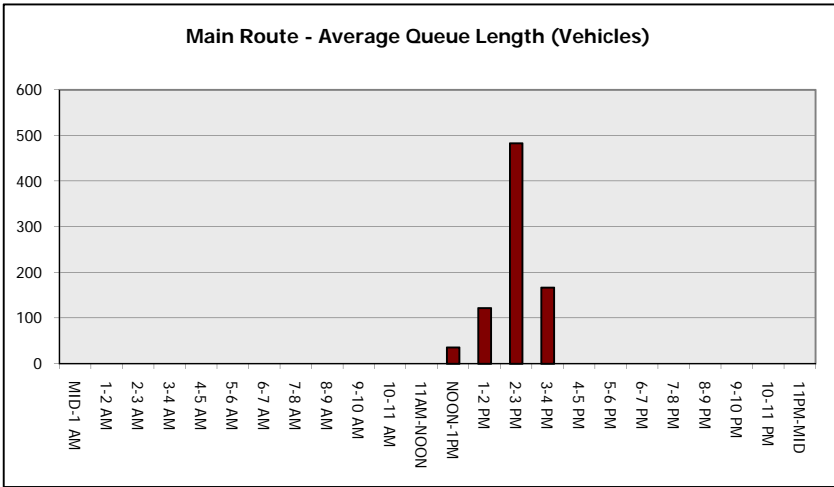
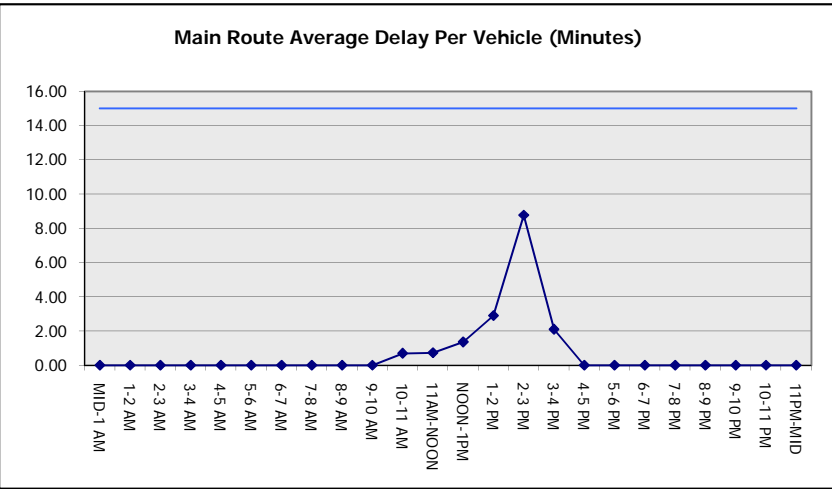
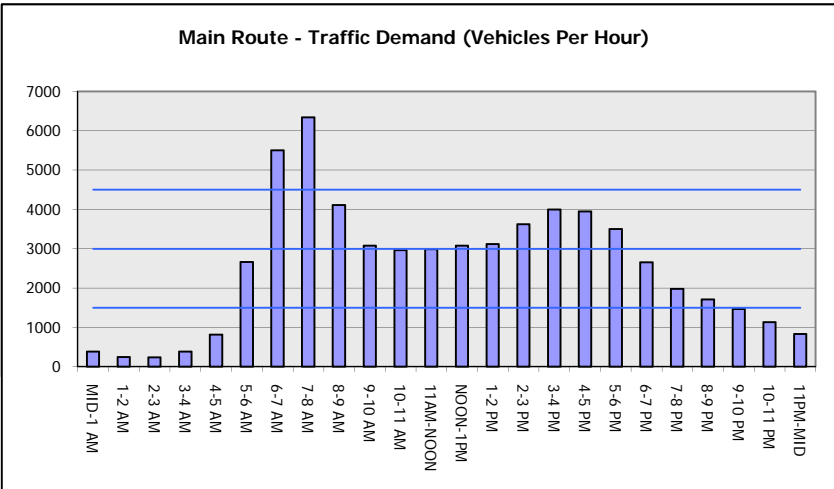
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0444
MAIN ROUTE WITH WORKS	0.0434
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$7,003
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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MAY
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 Construction Season

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	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	OFF	5427	0	4.32	391	53.8	29.2	29.2
4-5 PM	6262	0.0	OFF	6262	0	2.15	235	48.1	35.0	35.0
5-6 PM	5754	0.0	OFF	5754	0	2.61	243	51.5	34.7	34.7
6-7 PM	3248	0.0	OFF	3248	0	0.04	2	66.7	66.1	66.1
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	0.0419
'DIVERSION'	0.0013

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$13,200
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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MON-THUR NORTHBOUND DIRECTION

