

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

FRIDAY 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	459	0.0	OFF	459	0	0.00	0	70.2	70.2	70.2
1-2 AM	320	0.0	OFF	320	0	0.00	0	70.2	70.2	70.2
2-3 AM	294	0.0	OFF	294	0	0.00	0	70.2	70.2	70.2
3-4 AM	383	0.0	OFF	383	0	0.00	0	70.2	70.2	70.2
4-5 AM	829	0.0	OFF	829	0	0.00	0	69.7	69.7	69.7
5-6 AM	2611	0.0	OFF	2611	0	0.00	0	67.5	67.5	67.5
6-7 AM	5252	0.0	OFF	5252	0	0.00	0	55.0	55.0	55.0
7-8 AM	6164	0.0	OFF	6164	0	0.00	0	48.7	48.7	48.7
8-9 AM	3986	0.0	OFF	3986	0	0.00	0	63.7	63.7	63.7
9-10 AM	3214	0.0	OFF	3214	0	0.00	0	66.8	66.8	66.8
10-11 AM	3010	0.0	1499	1545	1466	15.56+	388	67.0	14.0	36.5
11AM-NOON	3214	0.0	1499	1602	1612	14.51+	381	66.8	14.8	36.1
NOON-1PM	3356	0.0	1499	1827	1529	15.40+	383	66.6	14.1	30.8
1-2 PM	3397	0.0	1500	1500	1897	16.24+	400	66.5	13.5	30.8
2-3 PM	3876	0.0	1500	1500	2376	16.10+	400	64.4	13.5	30.8
3-4 PM	4352	0.0	OFF	4352	0	0.93	68	61.1	50.7	50.7
4-5 PM	4277	0.0	OFF	4277	0	0.00	0	61.7	61.7	61.7
5-6 PM	3985	0.0	OFF	3985	0	0.00	0	63.7	63.7	63.7
6-7 PM	3146	0.0	OFF	3146	0	0.00	0	66.8	66.8	66.8
7-8 PM	2322	0.0	OFF	2322	0	0.00	0	67.9	67.9	67.9
8-9 PM	1878	0.0	OFF	1878	0	0.00	0	68.4	68.4	68.4
9-10 PM	1780	0.0	OFF	1780	0	0.00	0	68.5	68.5	68.5
10-11 PM	1424	0.0	OFF	1424	0	0.00	0	69.0	69.0	69.0
11PM-MID	1137	0.0	OFF	1137	0	0.00	0	69.3	69.3	69.3

"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

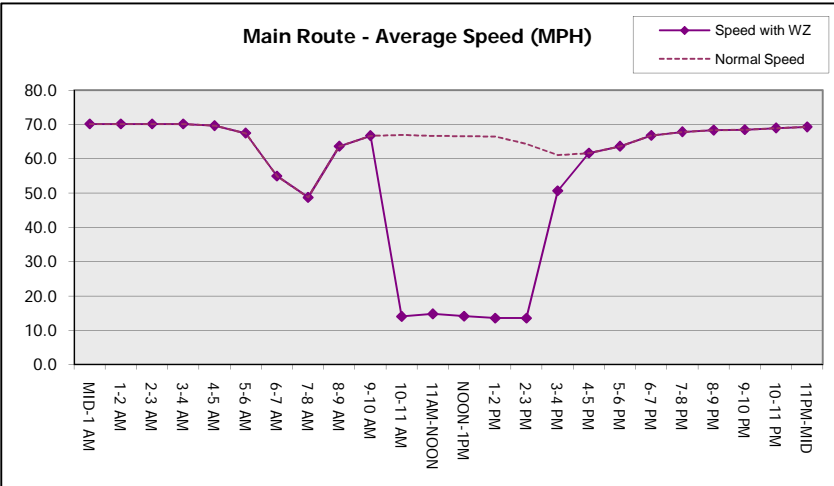
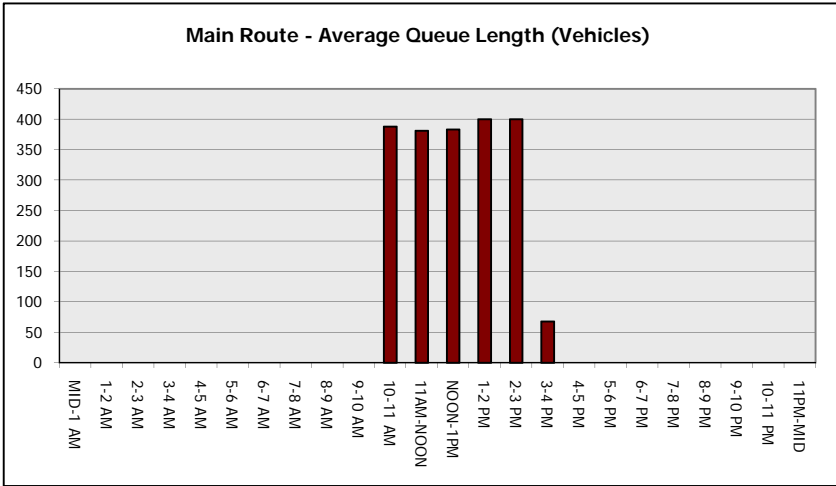
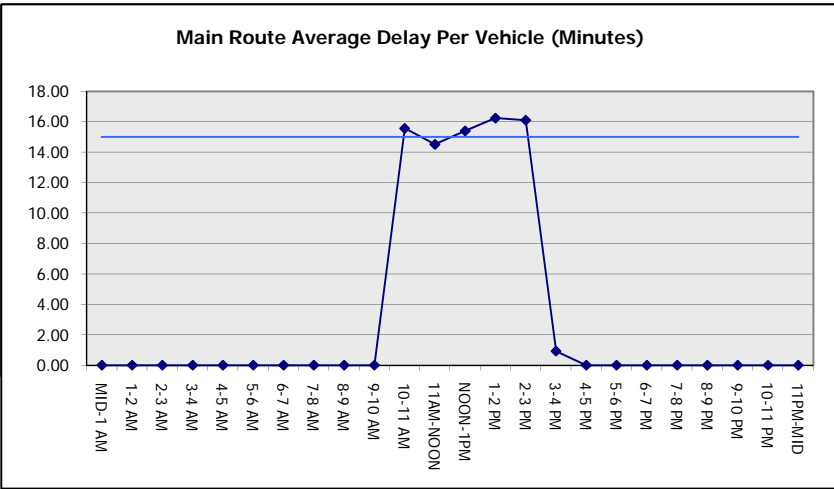
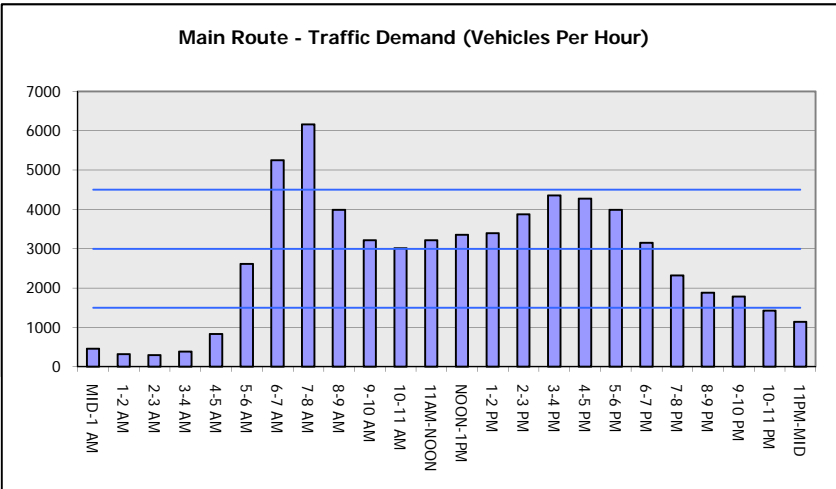
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0473
MAIN ROUTE WITH WORKS	0.0403
'DIVERSION'	0.0150
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$39,852
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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MAY
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	582	0.0	OFF	582	0	0.00	0	70.0	70.0	70.0
1-2 AM	363	0.0	OFF	363	0	0.00	0	70.2	70.2	70.2
2-3 AM	315	0.0	OFF	315	0	0.00	0	70.2	70.2	70.2
3-4 AM	355	0.0	OFF	355	0	0.00	0	70.2	70.2	70.2
4-5 AM	669	0.0	OFF	669	0	0.00	0	69.9	69.9	69.9
5-6 AM	1700	0.0	OFF	1700	0	0.00	0	68.6	68.6	68.6
6-7 AM	3253	0.0	OFF	3253	0	0.00	0	66.7	66.7	66.7
7-8 AM	3187	0.0	OFF	3187	0	0.00	0	66.8	66.8	66.8
8-9 AM	2919	0.0	OFF	2919	0	0.00	0	67.1	67.1	67.1
9-10 AM	3037	0.0	OFF	3037	0	0.00	0	66.9	66.9	66.9
10-11 AM	3201	0.0	1499	1550	1651	16.45+	412	66.8	13.4	36.6
11AM-NOON	3638	0.0	1499	1670	1969	14.44+	378	66.0	14.8	35.8
NOON-1PM	3949	0.0	1499	1512	2437	15.67+	399	63.9	13.8	38.1
1-2 PM	4193	0.0	1500	1500	2693	15.59+	400	62.2	13.8	38.1
2-3 PM	5191	0.0	1500	1500	3691	15.04+	400	55.4	13.8	38.1
3-4 PM	6328	0.0	OFF	6328	0	3.70	396	47.6	29.1	29.1
4-5 PM	7122	0.0	OFF	7122	0	10.21	1121	42.2	16.5	16.5
5-6 PM	6305	0.0	OFF	6305	0	18.11	1834	47.8	11.6	11.6
6-7 PM	4137	0.0	OFF	4137	0	11.69	1056	62.6	17.1	17.1
7-8 PM	2955	0.0	OFF	2955	0	0.04	2	67.1	66.5	66.5
8-9 PM	2306	0.0	OFF	2306	0	0.00	0	67.9	67.9	67.9
9-10 PM	2214	0.0	OFF	2214	0	0.00	0	68.0	68.0	68.0
10-11 PM	2035	0.0	OFF	2035	0	0.00	0	68.2	68.2	68.2
11PM-MID	1313	0.0	OFF	1313	0	0.00	0	69.1	69.1	69.1

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC) + INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT
 WARNING: THE DEMAND FLOW IN ONE OR MORE HOURS EXCEEDS THE THEORETICAL CAPACITY OF THE MAIN ROUTE *WITHOUT* CONSTRUCTION

----- 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	0.0522
MAIN ROUTE WITH WORKS	0.0425
'DIVERSION'	0.0211
PIA: Personal Injury Accidents	
ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$85,046
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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