

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) NIGHTTIME 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	1500	459	0	0.53	0	70.2	61.9	43.7	
1-2 AM	320	0.0	1500	320	0	0.51	0	70.2	62.1	44.2	
2-3 AM	294	0.0	1500	294	0	0.51	0	70.2	62.2	44.3	
3-4 AM	383	0.0	1500	383	0	0.52	0	70.2	62.0	44.0	
4-5 AM	829	0.0	1500	829	0	0.57	0	69.7	60.9	42.3	
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	OFF	3010	0	0.00	0	67.0	67.0	67.0	
11AM-NOON	3214	0.0	OFF	3214	0	0.00	0	66.8	66.8	66.8	
NOON-1PM	3356	0.0	OFF	3356	0	0.00	0	66.6	66.6	66.6	
1-2 PM	3397	0.0	OFF	3397	0	0.00	0	66.5	66.5	66.5	
2-3 PM	3876	0.0	OFF	3876	0	0.00	0	64.4	64.4	64.4	
3-4 PM	4352	0.0	OFF	4352	0	0.00	0	61.1	61.1	61.1	
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	1499	1925	397	12.69+	316	67.9	16.5	31.2	
8-9 PM	1878	0.0	1499	1500	378	16.35+	399	68.4	13.5	30.8	
9-10 PM	1780	0.0	1500	1499	281	16.35+	399	68.5	13.5	30.8	
10-11 PM	1424	0.0	1499	1375	49	14.93+	364	69.0	14.6	30.8	
11PM-MID	1137	0.0	1499	1137	0	4.96	152	69.3	30.9	35.6	

"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	0.0473
MAIN ROUTE WITH WORKS	0.0459
'DIVERSION'	0.0019
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$27,794
CONGESTED HOURS PER DAY*	4

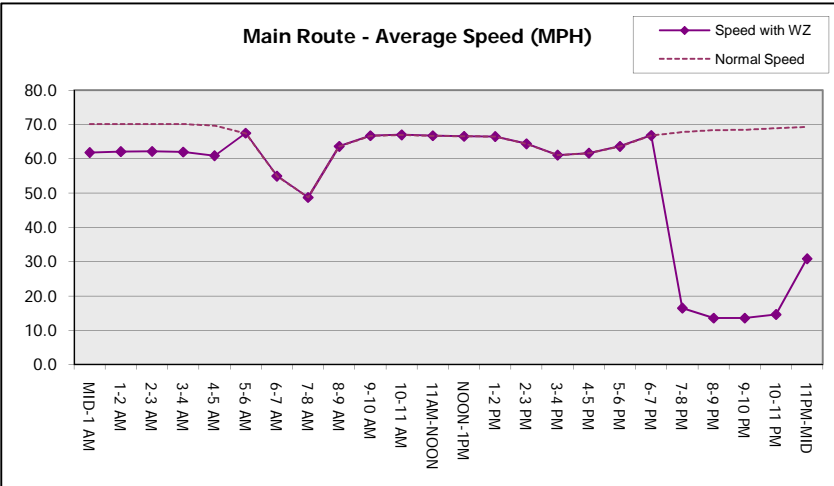
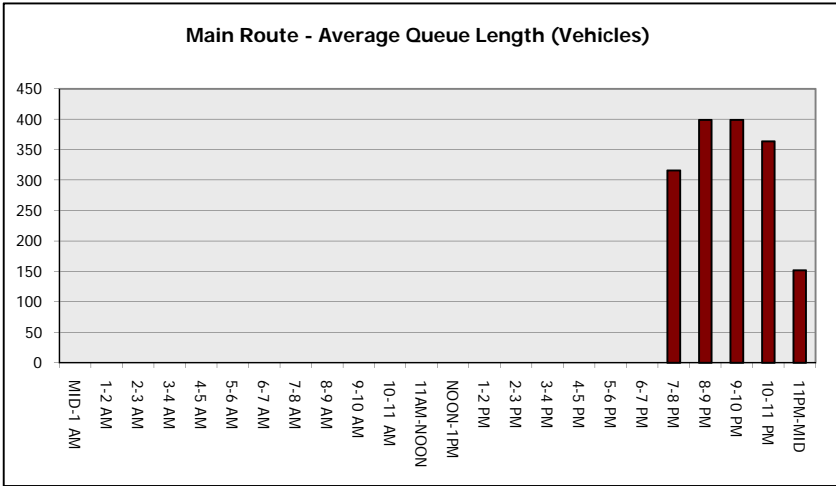
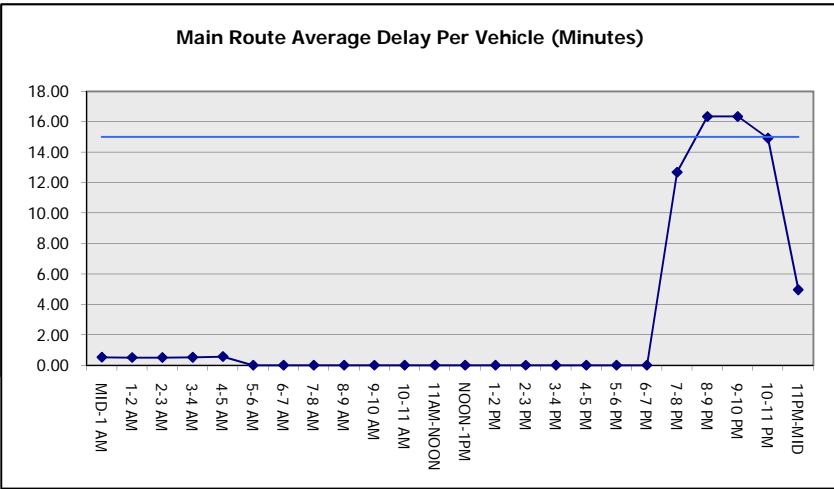
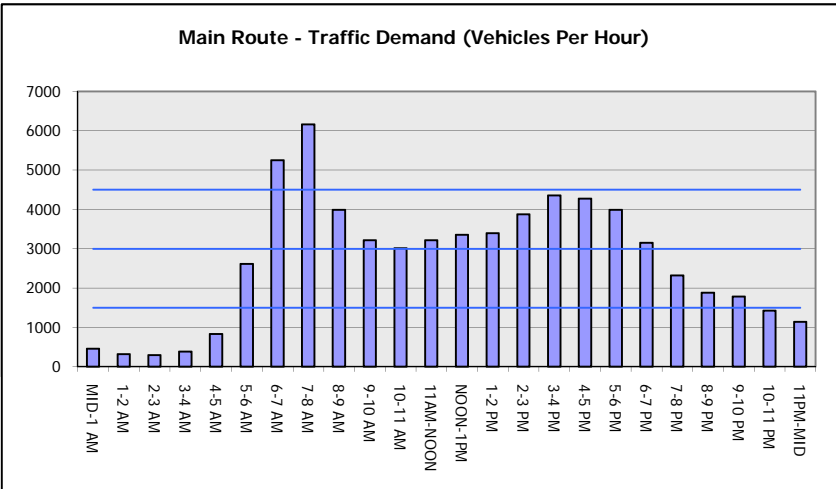
*Delays Exceeding User-Specified Maximum

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)
NIGHTTIME 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY SOUTHBOUND DIRECTION



USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	Analyzed for 2009 Construction Season

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	1500	582	0	1.06	23	70.0	55.2	43.1
1-2 AM	363	0.0	1500	363	0	0.52	0	70.2	62.0	44.0
2-3 AM	315	0.0	1500	315	0	0.51	0	70.2	62.1	44.2
3-4 AM	355	0.0	1500	355	0	0.52	0	70.2	62.0	44.1
4-5 AM	669	0.0	1500	669	0	0.55	0	69.9	61.4	42.8
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	OFF	3201	0	0.00	0	66.8	66.8	66.8
11AM-NOON	3638	0.0	OFF	3638	0	0.00	0	66.0	66.0	66.0
NOON-1PM	3949	0.0	OFF	3949	0	0.00	0	63.9	63.9	63.9
1-2 PM	4193	0.0	OFF	4193	0	0.00	0	62.2	62.2	62.2
2-3 PM	5191	0.0	OFF	5191	0	0.00	0	55.4	55.4	55.4
3-4 PM	6328	0.0	OFF	6328	0	0.00	0	47.6	47.6	47.6
4-5 PM	7122	0.0	OFF	7122	0	0.00	0	42.2	42.2	42.2
5-6 PM	6305	0.0	OFF	6305	0	0.00	0	47.8	47.8	47.8
6-7 PM	4137	0.0	OFF	4137	0	0.00	0	62.6	62.6	62.6
7-8 PM	2955	0.0	1499	1550	1405	16.47+	412	67.1	13.4	36.6
8-9 PM	2306	0.0	1499	1870	437	13.03+	330	67.9	16.1	31.5
9-10 PM	2214	0.0	1499	1500	714	16.32+	399	68.0	13.5	30.8
10-11 PM	2035	0.0	1500	1500	535	16.34+	400	68.2	13.5	30.8
11PM-MID	1313	0.0	1499	1275	38	13.67+	339	69.1	15.6	31.2

"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	0.0492
'DIVERSION'	0.0053
<small>PIA: Personal Injury Accidents</small>	
ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$39,671
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)
NIGHTTIME 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

