

<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	770	0.0	3000	770	0	0.35	0	69.8	64.0	49.7
1-2 AM	565	0.0	3000	565	0	0.36	0	70.0	64.2	49.7
2-3 AM	313	0.0	3000	313	0	0.36	0	70.2	64.3	49.7
3-4 AM	224	0.0	3000	224	0	0.36	0	70.2	64.3	49.7
4-5 AM	257	0.0	3000	257	0	0.36	0	70.2	64.3	49.7
5-6 AM	396	0.0	3000	396	0	0.36	0	70.2	64.3	49.7
6-7 AM	746	0.0	3000	746	0	0.35	0	69.8	64.0	49.7
7-8 AM	884	0.0	3000	884	0	0.35	0	69.6	64.0	49.7
8-9 AM	1440	0.0	3000	1440	0	0.34	0	68.9	63.5	49.7
9-10 AM	2212	0.0	2999	2212	0	0.34	0	68.0	62.7	49.2
10-11 AM	3142	0.0	2999	3142	0	1.36	42	66.8	50.2	37.7
11AM-NOON	3799	0.0	3000	3760	39	9.34+	535	64.9	20.3	37.3
NOON-1PM	4054	0.0	3000	2934	1120	14.88+	793	63.2	14.3	37.3
1-2 PM	3988	0.0	3000	3000	988	15.03+	800	63.6	14.2	37.3
2-3 PM	4246	0.0	3000	3000	1246	14.90+	800	61.9	14.2	37.3
3-4 PM	3963	0.0	3000	3000	963	15.04+	800	63.8	14.2	37.3
4-5 PM	4017	0.0	3000	3000	1017	15.01+	800	63.4	14.2	37.3
5-6 PM	3833	0.0	3000	3000	833	15.10+	800	64.6	14.2	37.3
6-7 PM	3369	0.0	2999	2952	417	15.12+	794	66.6	14.3	37.3
7-8 PM	2886	0.0	2999	2851	35	14.49+	759	67.1	14.8	37.3
8-9 PM	2411	0.0	2999	2411	0	7.24	410	67.8	24.4	40.6
9-10 PM	1687	0.0	3000	1687	0	0.38	2	68.6	62.7	49.7
10-11 PM	1203	0.0	3000	1203	0	0.35	0	69.2	63.7	49.7
11PM-MID	595	0.0	3000	595	0	0.36	0	70.0	64.1	49.7

+ 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

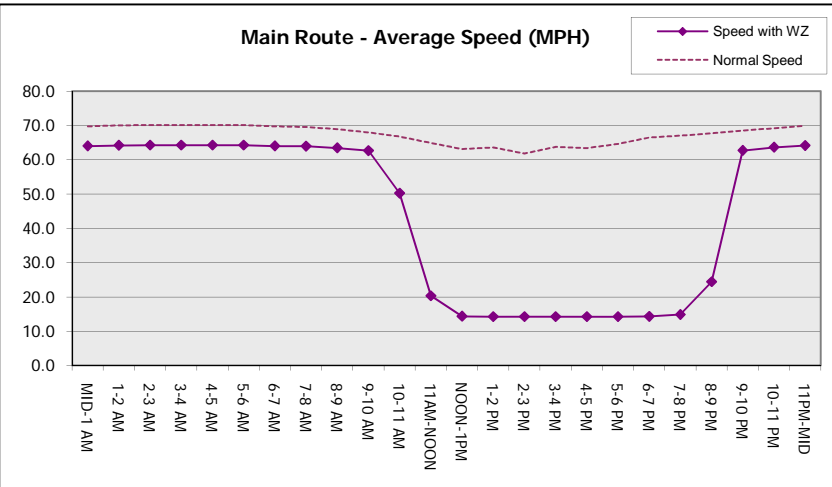
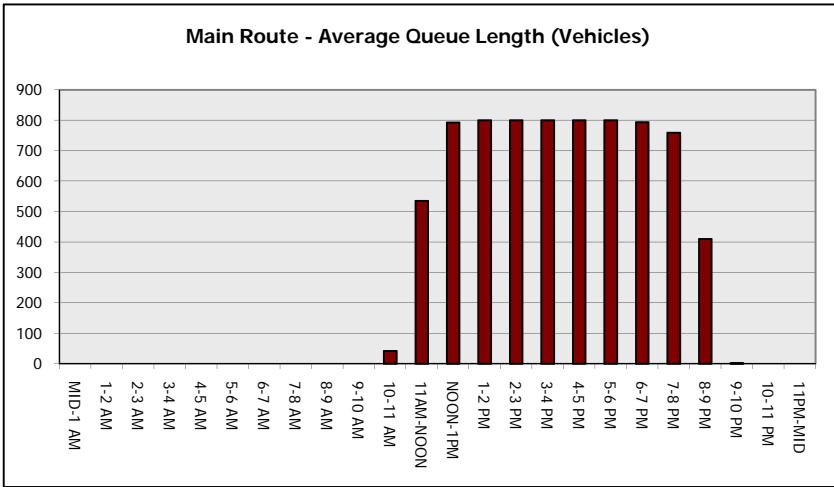
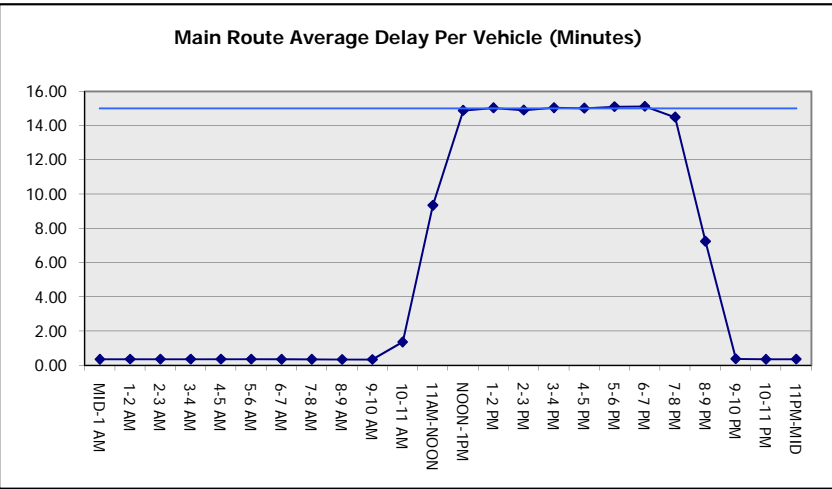
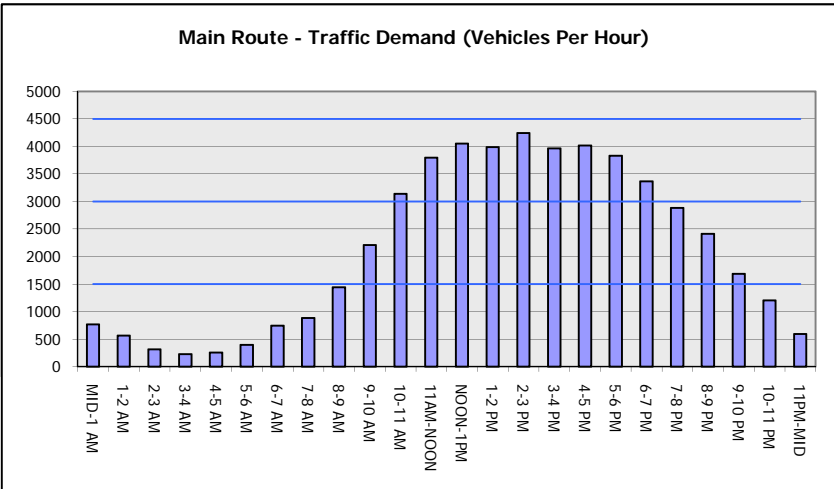
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0373
MAIN ROUTE WITH WORKS	0.0295
'DIVERSION'	0.0113
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$145,419
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding User-Specified Maximum

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CONTINUOUS (24 HOUR) CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY SOUTHBOUND DIRECTION**



<b>USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	807	0.0	3000	807	0	0.35	0	69.7	64.0	49.7
1-2 AM	503	0.0	3000	503	0	0.36	0	70.1	64.3	49.7
2-3 AM	359	0.0	3000	359	0	0.36	0	70.2	64.3	49.7
3-4 AM	219	0.0	3000	219	0	0.36	0	70.2	64.3	49.7
4-5 AM	178	0.0	3000	178	0	0.36	0	70.2	64.3	49.7
5-6 AM	364	0.0	3000	364	0	0.36	0	70.2	64.3	49.7
6-7 AM	582	0.0	3000	582	0	0.36	0	70.0	64.2	49.7
7-8 AM	897	0.0	3000	897	0	0.35	0	69.6	63.9	49.7
8-9 AM	1279	0.0	3000	1279	0	0.35	0	69.1	63.6	49.7
9-10 AM	1864	0.0	3000	1864	0	0.34	0	68.4	63.2	49.7
10-11 AM	2441	0.0	3000	2441	0	0.36	0	67.7	62.2	48.3
11AM-NOON	2821	0.0	2999	2821	0	0.61	0	67.3	58.5	40.2
NOON-1PM	3110	0.0	2999	3110	0	1.48	43	66.9	49.2	37.3
1-2 PM	3174	0.0	3000	3174	0	4.23	197	66.8	33.0	37.3
2-3 PM	3078	0.0	2999	3078	0	6.59	324	66.9	25.7	37.3
3-4 PM	3129	0.0	3000	3129	0	8.24	416	66.8	22.3	37.3
4-5 PM	3413	0.0	3000	3315	98	12.93+	684	66.5	16.1	37.3
5-6 PM	3127	0.0	3000	2991	136	15.22+	798	66.8	14.3	37.3
6-7 PM	2526	0.0	2999	2526	0	11.09+	592	67.6	18.2	37.8
7-8 PM	2091	0.0	3000	2091	0	1.14	64	68.1	53.2	49.1
8-9 PM	1727	0.0	3000	1727	0	0.34	0	68.6	63.3	49.7
9-10 PM	1450	0.0	3000	1450	0	0.34	0	68.9	63.5	49.7
10-11 PM	1173	0.0	3000	1173	0	0.35	0	69.3	63.7	49.7
11PM-MID	710	0.0	3000	710	0	0.36	0	69.9	64.1	49.7

+ 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	0.0300
MAIN ROUTE WITH WORKS	0.0272
'DIVERSION'	0.0004

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$54,478
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

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