

USH 41/45: CTH Q TO STH 145 (WAUKESHA AND MILWAUKEE COUNTIES) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	410	0.0	3000	410	0	0.36	0	70.2	64.3	49.7	
1-2 AM	257	0.0	3000	257	0	0.36	0	70.2	64.3	49.7	
2-3 AM	271	0.0	3000	271	0	0.36	0	70.2	64.3	49.7	
3-4 AM	413	0.0	3000	413	0	0.36	0	70.2	64.3	49.7	
4-5 AM	913	0.0	3000	913	0	0.35	0	69.6	63.9	49.7	
5-6 AM	2870	0.0	2999	2870	0	1.30	59	67.2	51.0	43.5	
6-7 AM	5761	0.0	3000	3527	2235	12.37+	740	51.5	15.6	42.1	
7-8 AM	6563	0.0	2999	3000	3563	13.37+	799	46.0	14.2	37.3	
8-9 AM	4288	0.0	3000	3000	1288	14.88+	800	61.5	14.2	37.3	
9-10 AM	3361	0.0	3000	3013	348	15.19+	798	66.6	14.3	37.3	
10-11 AM	3197	0.0	3000	3000	197	15.23+	800	66.8	14.2	37.3	
11AM-NOON	3235	0.0	3000	3000	235	15.23+	800	66.7	14.2	37.3	
NOON-1PM	3367	0.0	3000	3000	367	15.22+	800	66.6	14.2	37.3	
1-2 PM	3344	0.0	3000	3000	344	15.22+	800	66.6	14.2	37.3	
2-3 PM	3822	0.0	3000	3000	822	15.10+	800	64.8	14.2	37.3	
3-4 PM	4142	0.0	3000	3000	1142	14.95+	800	62.5	14.2	37.3	
4-5 PM	4070	0.0	3000	3000	1070	14.99+	800	63.0	14.2	37.3	
5-6 PM	3583	0.0	3000	3000	583	15.20+	800	66.3	14.2	37.3	
6-7 PM	2711	0.0	3000	2711	0	12.96+	681	67.4	16.1	37.3	
7-8 PM	2059	0.0	2999	2059	0	1.98	143	68.2	45.8	47.5	
8-9 PM	1830	0.0	3000	1830	0	0.34	0	68.4	63.2	49.7	
9-10 PM	1493	0.0	3000	1493	0	0.34	0	68.9	63.5	49.7	
10-11 PM	1178	0.0	3000	1178	0	0.35	0	69.2	63.7	49.7	
11PM-MID	876	0.0	3000	876	0	0.35	0	69.6	64.0	49.7	

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(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	0
(VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

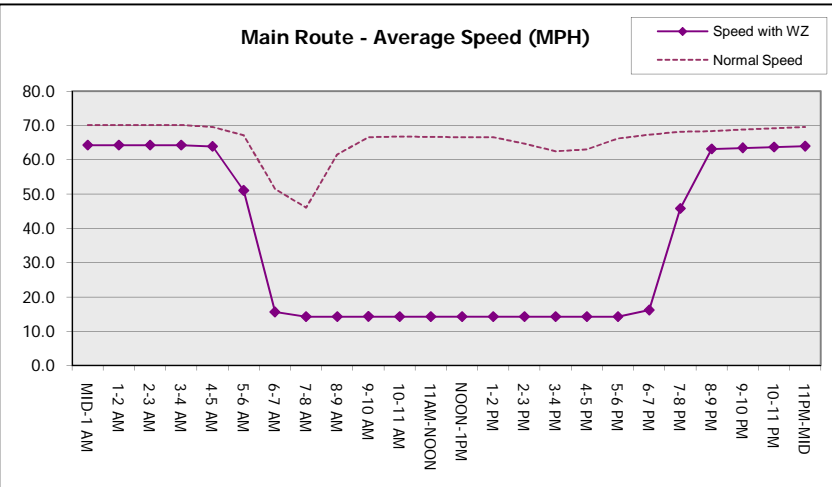
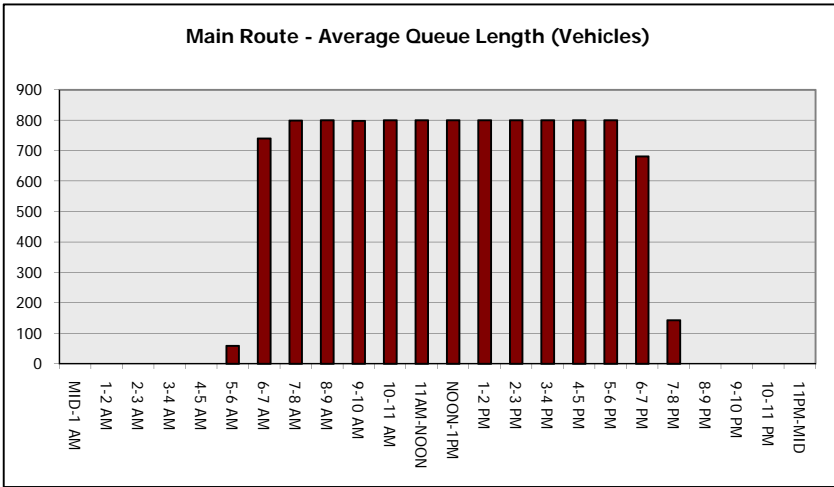
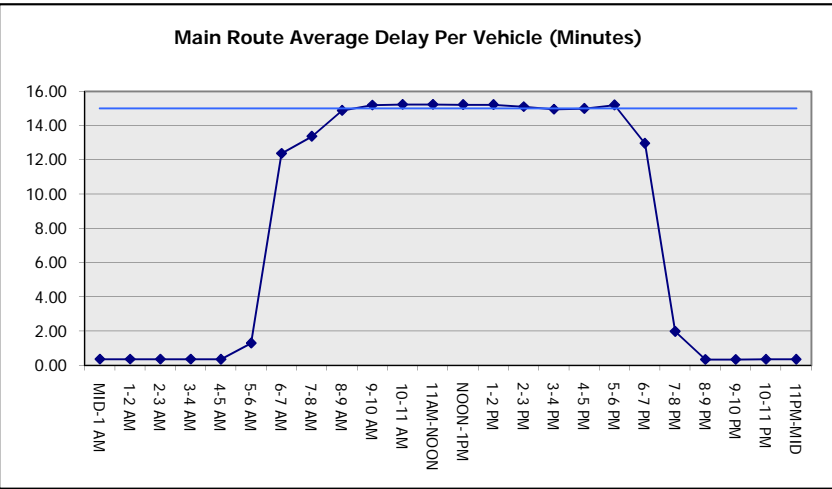
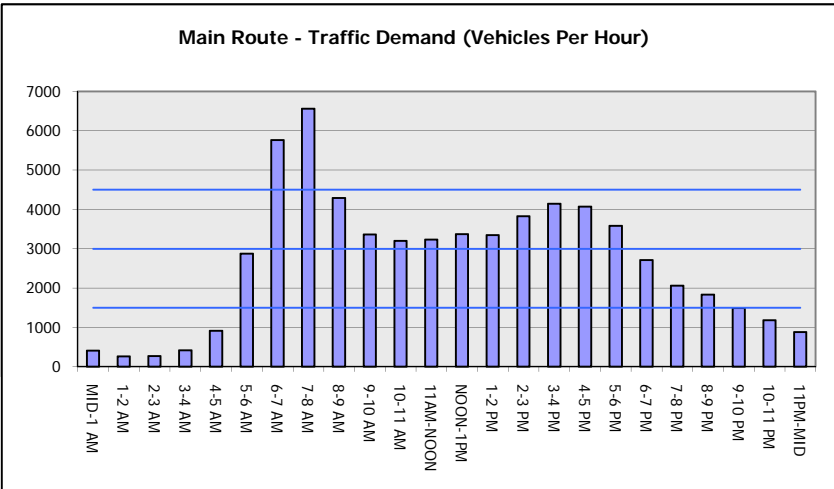
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0468
MAIN ROUTE WITH WORKS	0.0345
'DIVERSION'	0.0207
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$164,075
CONGESTED HOURS PER DAY*	13

*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	532	0.0	3000	532	0	0.36	0	70.0	64.2	49.7
1-2 AM	325	0.0	3000	325	0	0.36	0	70.2	64.3	49.7
2-3 AM	269	0.0	3000	269	0	0.36	0	70.2	64.3	49.7
3-4 AM	295	0.0	3000	295	0	0.36	0	70.2	64.3	49.7
4-5 AM	677	0.0	3000	677	0	0.36	0	69.9	64.1	49.7
5-6 AM	1749	0.0	3000	1749	0	0.34	0	68.6	63.2	49.7
6-7 AM	3031	0.0	2999	3031	0	1.09	25	66.9	53.0	38.4
7-8 AM	3134	0.0	2999	3134	0	3.90	177	66.8	34.3	37.3
8-9 AM	2758	0.0	2999	2758	0	2.86	132	67.3	39.6	38.7
9-10 AM	2598	0.0	3000	2598	0	0.47	0	67.5	60.6	44.6
10-11 AM	2766	0.0	2999	2766	0	0.58	0	67.3	59.0	41.2
11AM-NOON	3005	0.0	2999	3005	0	0.83	6	67.0	55.8	37.6
NOON-1PM	3135	0.0	3000	3135	0	2.10	79	66.8	44.3	37.3
1-2 PM	3442	0.0	3000	3442	0	6.42	338	66.4	26.1	37.3
2-3 PM	4519	0.0	2999	3144	1376	14.49+	785	60.0	14.5	37.3
3-4 PM	5551	0.0	3000	3000	2551	14.15+	800	52.9	14.2	37.3
4-5 PM	6652	0.0	3000	3000	3652	13.29+	800	45.4	14.2	37.3
5-6 PM	6043	0.0	3000	3000	3043	13.80+	800	49.6	14.2	37.3
6-7 PM	3521	0.0	3000	3034	487	14.86+	781	66.4	14.5	37.3
7-8 PM	2416	0.0	2999	2416	0	9.64	534	67.8	20.1	39.7
8-9 PM	2039	0.0	3000	2039	0	0.62	21	68.2	59.1	49.7
9-10 PM	1740	0.0	3000	1740	0	0.34	0	68.6	63.2	49.7
10-11 PM	1527	0.0	3000	1527	0	0.34	0	68.8	63.4	49.7
11PM-MID	970	0.0	3000	970	0	0.35	0	69.6	63.9	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	0.0459
MAIN ROUTE WITH WORKS	0.0343
'DIVERSION'	0.0188

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$98,470
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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