

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

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	571	0.0	3000	571	0	0.36	0	70.0	64.2	49.7	
1-2 AM	342	0.0	3000	342	0	0.36	0	70.2	64.3	49.7	
2-3 AM	278	0.0	3000	278	0	0.36	0	70.2	64.3	49.7	
3-4 AM	236	0.0	3000	236	0	0.36	0	70.2	64.3	49.7	
4-5 AM	394	0.0	3000	394	0	0.36	0	70.2	64.3	49.7	
5-6 AM	745	0.0	3000	745	0	0.35	0	69.8	64.0	49.7	
6-7 AM	1212	0.0	3000	1212	0	0.35	0	69.2	63.7	49.7	
7-8 AM	1652	0.0	3000	1652	0	0.34	0	68.7	63.3	49.7	
8-9 AM	2193	0.0	3000	2193	0	0.33	0	68.0	62.8	49.7	
9-10 AM	2642	0.0	3000	2642	0	0.49	0	67.4	60.2	43.6	
10-11 AM	2847	0.0	2999	2847	0	0.63	0	67.2	58.2	39.7	
11AM-NOON	3167	0.0	2999	3167	0	1.90	70	66.8	45.7	37.3	
NOON-1PM	3271	0.0	3000	3271	0	6.05	303	66.7	27.1	37.3	
1-2 PM	3157	0.0	2999	3157	0	9.96	511	66.8	19.6	37.3	
2-3 PM	3446	0.0	3000	3212	234	14.24+	750	66.4	15.0	37.3	
3-4 PM	3337	0.0	3000	3000	337	15.22+	799	66.6	14.2	37.3	
4-5 PM	3317	0.0	3000	3000	317	15.22+	800	66.6	14.2	37.3	
5-6 PM	2937	0.0	2999	2913	24	14.88+	779	67.1	14.5	37.3	
6-7 PM	2510	0.0	2999	2510	0	9.32	501	67.6	20.6	38.3	
7-8 PM	2103	0.0	3000	2103	0	0.76	32	68.1	57.4	49.6	
8-9 PM	1818	0.0	3000	1818	0	0.34	0	68.5	63.2	49.7	
9-10 PM	1741	0.0	3000	1741	0	0.34	0	68.6	63.2	49.7	
10-11 PM	1327	0.0	3000	1327	0	0.35	0	69.1	63.6	49.7	
11PM-MID	904	0.0	3000	904	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	0.0338
MAIN ROUTE WITH WORKS	0.0301
'DIVERSION'	0.0015
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$79,074
CONGESTED HOURS PER DAY*	4

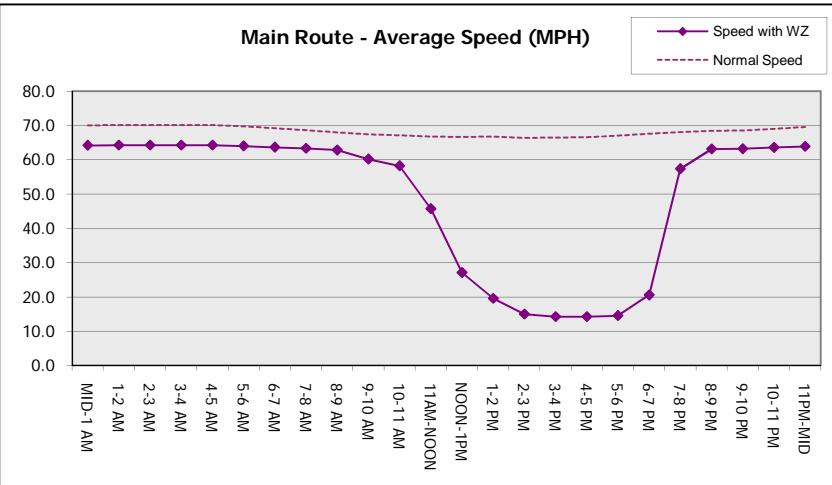
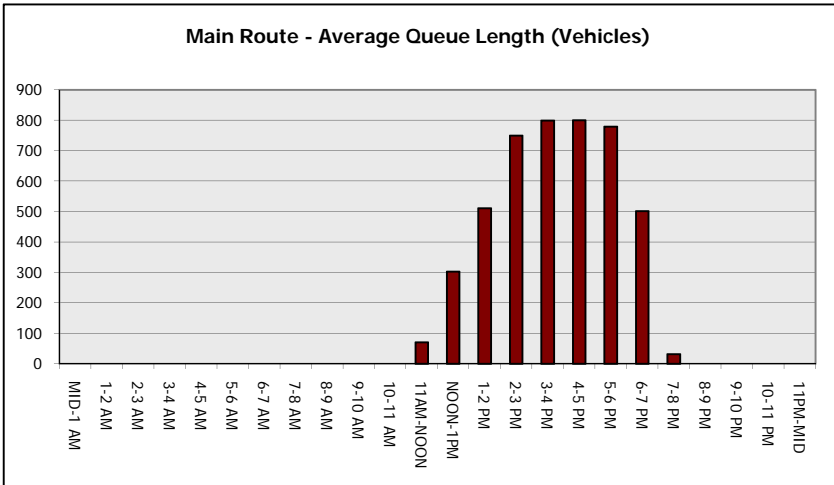
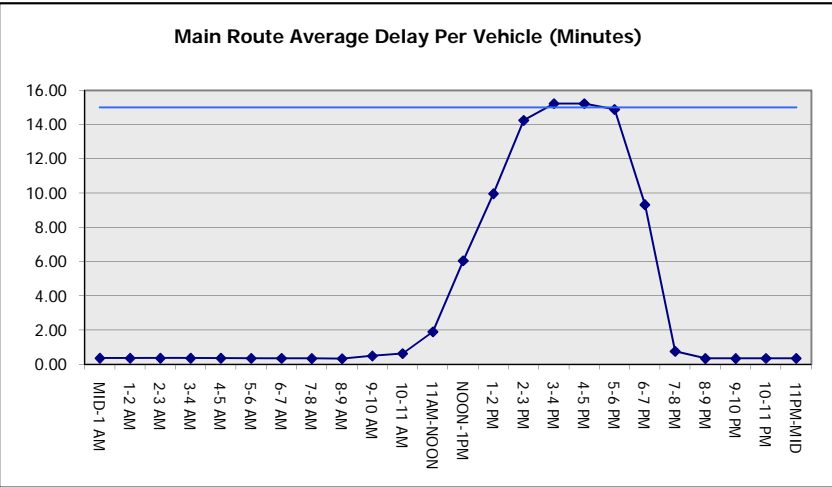
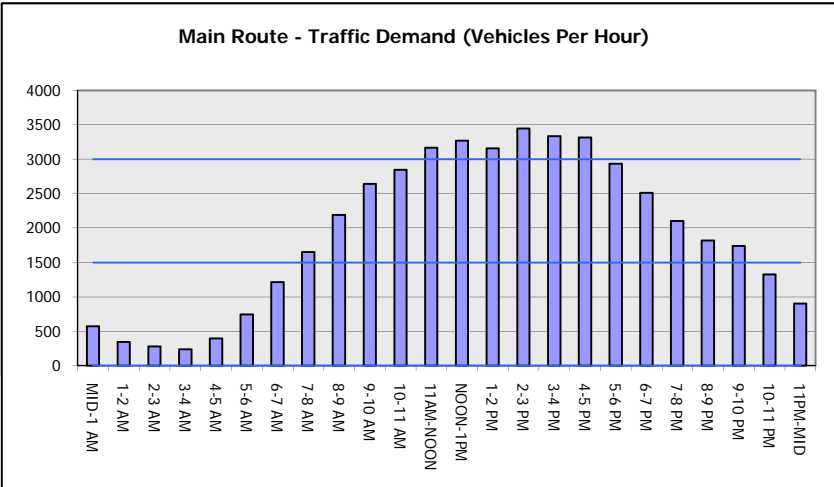
*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	797	0.0	3000	797	0	0.35	0	69.7	64.0	49.7
1-2 AM	452	0.0	3000	452	0	0.36	0	70.2	64.3	49.7
2-3 AM	364	0.0	3000	364	0	0.36	0	70.2	64.3	49.7
3-4 AM	314	0.0	3000	314	0	0.36	0	70.2	64.3	49.7
4-5 AM	437	0.0	3000	437	0	0.36	0	70.2	64.3	49.7
5-6 AM	779	0.0	3000	779	0	0.35	0	69.7	64.0	49.7
6-7 AM	1419	0.0	3000	1419	0	0.34	0	69.0	63.5	49.7
7-8 AM	1964	0.0	3000	1964	0	0.34	0	68.3	63.0	49.7
8-9 AM	2452	0.0	3000	2452	0	0.37	0	67.7	62.0	48.0
9-10 AM	2855	0.0	2999	2855	0	0.63	0	67.2	58.2	39.7
10-11 AM	3263	0.0	2999	3263	0	2.56	113	66.7	41.2	37.3
11AM-NOON	3436	0.0	3000	3436	0	8.94	472	66.4	21.1	37.3
NOON-1PM	3517	0.0	2999	3082	435	15.03+	790	66.4	14.3	37.3
1-2 PM	3448	0.0	3000	3000	448	15.21+	800	66.4	14.2	37.3
2-3 PM	3361	0.0	3000	3000	361	15.22+	800	66.6	14.2	37.3
3-4 PM	3340	0.0	3000	3000	340	15.22+	800	66.6	14.2	37.3
4-5 PM	3269	0.0	3000	3000	269	15.23+	800	66.7	14.2	37.3
5-6 PM	2959	0.0	3000	2947	13	14.87+	779	67.1	14.5	37.3
6-7 PM	2408	0.0	2999	2408	0	8.27	461	67.8	22.4	39.9
7-8 PM	1979	0.0	3000	1979	0	0.47	9	68.2	61.2	49.7
8-9 PM	1826	0.0	3000	1826	0	0.34	0	68.4	63.2	49.7
9-10 PM	1934	0.0	3000	1934	0	0.34	0	68.3	63.1	49.7
10-11 PM	1389	0.0	3000	1389	0	0.34	0	69.0	63.5	49.7
11PM-MID	944	0.0	3000	944	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	0.0358
MAIN ROUTE WITH WORKS	0.0313
'DIVERSION'	0.0032

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$102,478
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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