

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

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	OFF	571	0	0.00	0	70.0	70.0	70.0	
1-2 AM	342	0.0	OFF	342	0	0.00	0	70.2	70.2	70.2	
2-3 AM	278	0.0	OFF	278	0	0.00	0	70.2	70.2	70.2	
3-4 AM	236	0.0	OFF	236	0	0.00	0	70.2	70.2	70.2	
4-5 AM	394	0.0	OFF	394	0	0.00	0	70.2	70.2	70.2	
5-6 AM	745	0.0	OFF	745	0	0.00	0	69.8	69.8	69.8	
6-7 AM	1212	0.0	OFF	1212	0	0.00	0	69.2	69.2	69.2	
7-8 AM	1652	0.0	OFF	1652	0	0.00	0	68.7	68.7	68.7	
8-9 AM	2193	0.0	1499	1860	333	9.72+	264	68.0	20.0	30.8	
9-10 AM	2642	0.0	1499	1500	1142	16.29+	399	67.4	13.5	30.8	
10-11 AM	2847	0.0	1500	1500	1347	16.28+	400	67.2	13.5	30.8	
11AM-NOON	3167	0.0	1500	1500	1667	16.25+	400	66.8	13.5	30.8	
NOON-1PM	3271	0.0	1500	1500	1771	16.24+	400	66.7	13.5	30.8	
1-2 PM	3157	0.0	1500	1500	1657	16.25+	400	66.8	13.5	30.8	
2-3 PM	3446	0.0	1500	1500	1946	16.23+	400	66.4	13.5	30.8	
3-4 PM	3337	0.0	1500	1500	1837	16.24+	400	66.6	13.5	30.8	
4-5 PM	3317	0.0	1500	1500	1817	16.24+	400	66.6	13.5	30.8	
5-6 PM	2937	0.0	1500	1500	1437	16.27+	400	67.1	13.5	30.8	
6-7 PM	2510	0.0	OFF	2510	0	0.21	18	67.6	64.3	64.3	
7-8 PM	2103	0.0	OFF	2103	0	0.00	0	68.1	68.1	68.1	
8-9 PM	1818	0.0	OFF	1818	0	0.00	0	68.5	68.5	68.5	
9-10 PM	1741	0.0	OFF	1741	0	0.00	0	68.6	68.6	68.6	
10-11 PM	1327	0.0	OFF	1327	0	0.00	0	69.1	69.1	69.1	
11PM-MID	904	0.0	OFF	904	0	0.00	0	69.6	69.6	69.6	

"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	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

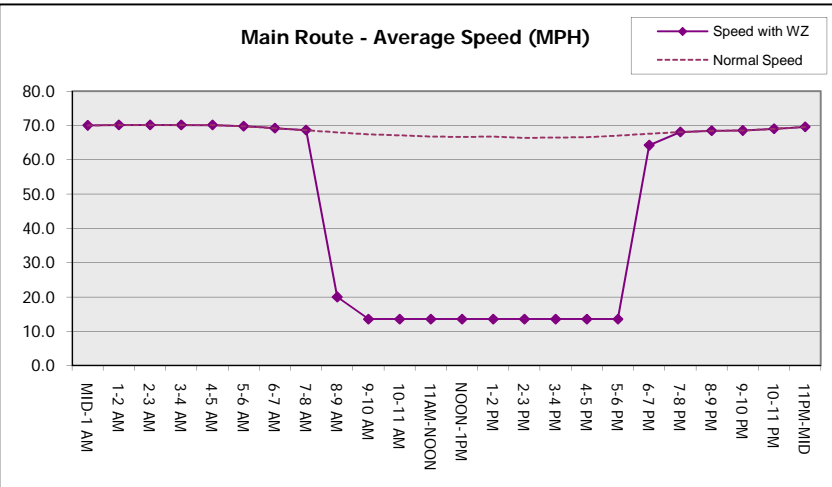
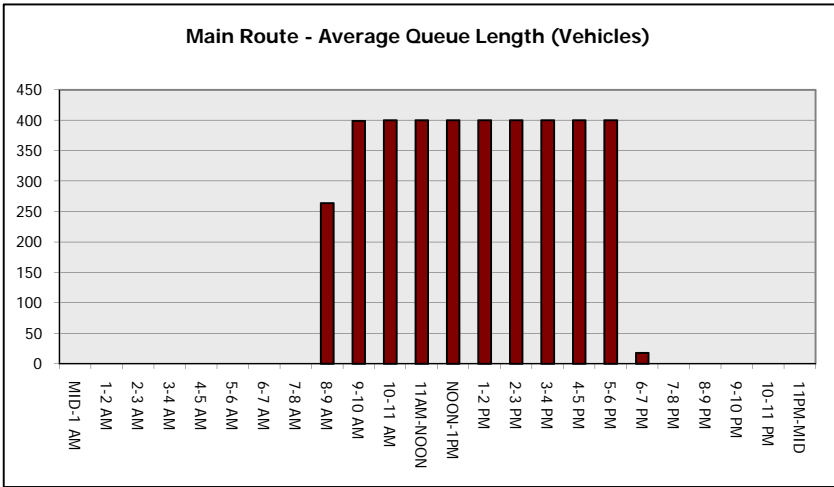
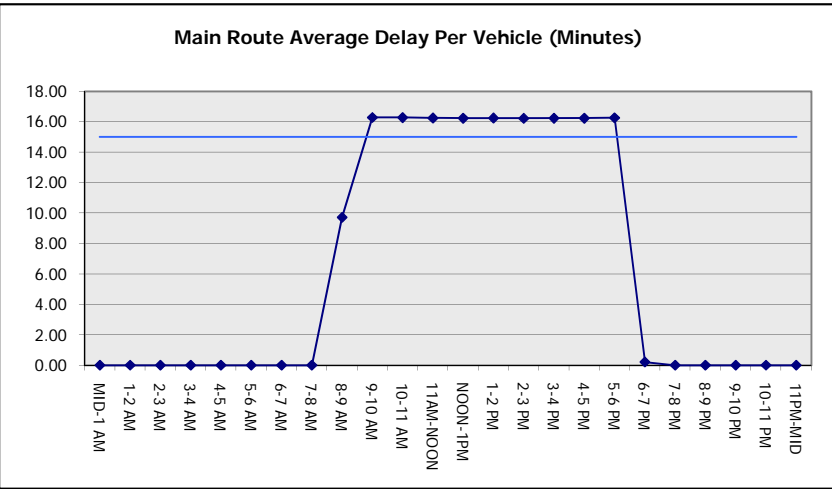
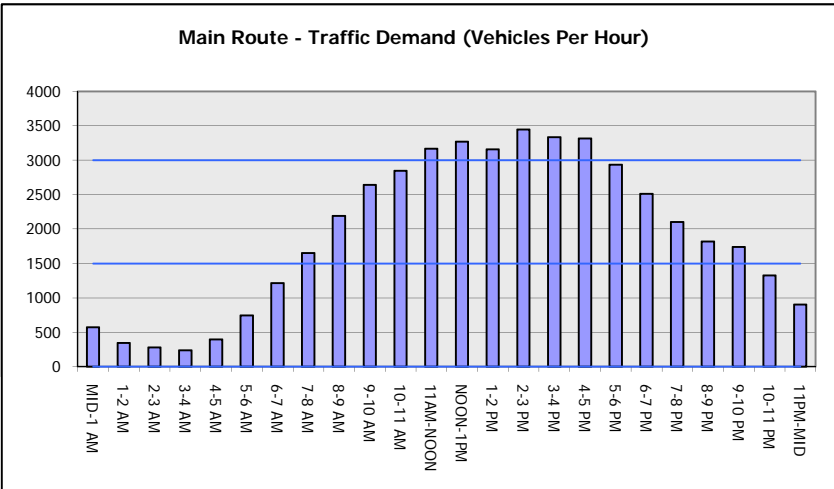
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0338
MAIN ROUTE WITH WORKS	0.0218
'DIVERSION'	0.0253
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$131,749
CONGESTED HOURS PER DAY*	10

*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	OFF	797	0	0.00	0	69.7	69.7	69.7
1-2 AM	452	0.0	OFF	452	0	0.00	0	70.2	70.2	70.2
2-3 AM	364	0.0	OFF	364	0	0.00	0	70.2	70.2	70.2
3-4 AM	314	0.0	OFF	314	0	0.00	0	70.2	70.2	70.2
4-5 AM	437	0.0	OFF	437	0	0.00	0	70.2	70.2	70.2
5-6 AM	779	0.0	OFF	779	0	0.00	0	69.7	69.7	69.7
6-7 AM	1419	0.0	OFF	1419	0	0.00	0	69.0	69.0	69.0
7-8 AM	1964	0.0	OFF	1964	0	0.00	0	68.3	68.3	68.3
8-9 AM	2452	0.0	1499	1920	532	11.91+	305	67.7	17.3	30.8
9-10 AM	2855	0.0	1500	1500	1355	16.28+	400	67.2	13.5	30.8
10-11 AM	3263	0.0	1500	1500	1763	16.25+	400	66.7	13.5	30.8
11AM-NOON	3436	0.0	1500	1500	1936	16.23+	400	66.4	13.5	30.8
NOON-1PM	3517	0.0	1500	1500	2017	16.23+	400	66.4	13.5	30.8
1-2 PM	3448	0.0	1500	1500	1948	16.23+	400	66.4	13.5	30.8
2-3 PM	3361	0.0	1500	1500	1861	16.24+	400	66.6	13.5	30.8
3-4 PM	3340	0.0	1500	1500	1840	16.24+	400	66.6	13.5	30.8
4-5 PM	3269	0.0	1500	1500	1769	16.24+	400	66.7	13.5	30.8
5-6 PM	2959	0.0	1500	1500	1459	16.27+	400	67.1	13.5	30.8
6-7 PM	2408	0.0	OFF	2408	0	0.28	24	67.8	63.4	63.4
7-8 PM	1979	0.0	OFF	1979	0	0.00	0	68.2	68.2	68.2
8-9 PM	1826	0.0	OFF	1826	0	0.00	0	68.4	68.4	68.4
9-10 PM	1934	0.0	OFF	1934	0	0.00	0	68.3	68.3	68.3
10-11 PM	1389	0.0	OFF	1389	0	0.00	0	69.0	69.0	69.0
11PM-MID	944	0.0	OFF	944	0	0.00	0	69.6	69.6	69.6

"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	0.0358
MAIN ROUTE WITH WORKS	0.0227
'DIVERSION'	0.0279

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$139,824
CONGESTED HOURS PER DAY*	10

*Delays Exceeding User-Specified Maximum

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