

IH 43: CTH Y TO HALE INTERCHANGE (WAUKESHA AND MILWAUKEE COUNTIES) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	592	0.0	OFF	592	0	0.00	0	65.3	65.3	65.3	
1-2 AM	334	0.0	OFF	334	0	0.00	0	65.8	65.8	65.8	
2-3 AM	216	0.0	OFF	216	0	0.00	0	66.0	66.0	66.0	
3-4 AM	153	0.0	OFF	153	0	0.00	0	66.1	66.1	66.1	
4-5 AM	143	0.0	OFF	143	0	0.00	0	66.1	66.1	66.1	
5-6 AM	226	0.0	OFF	226	0	0.00	0	66.0	66.0	66.0	
6-7 AM	398	0.0	OFF	398	0	0.00	0	65.6	65.6	65.6	
7-8 AM	533	0.0	OFF	533	0	0.00	0	65.4	65.4	65.4	
8-9 AM	577	0.0	OFF	577	0	0.00	0	65.3	65.3	65.3	
9-10 AM	993	0.0	1500	993	0	0.52	0	64.5	59.6	41.7	
10-11 AM	1263	0.0	1499	1263	0	0.72	0	64.0	57.4	36.6	
11AM-NOON	1462	0.0	1499	1462	0	1.01	1	63.7	54.8	31.7	
NOON-1PM	1648	0.0	1500	1648	0	3.43	70	63.3	41.1	30.8	
1-2 PM	1729	0.0	1500	1729	0	10.57	266	63.2	23.7	30.8	
2-3 PM	1662	0.0	1499	1500	162	15.82+	399	63.3	18.1	30.8	
3-4 PM	1802	0.0	1500	1500	302	15.80+	400	63.0	18.1	30.8	
4-5 PM	1840	0.0	1500	1500	340	15.79+	400	63.0	18.1	30.8	
5-6 PM	1553	0.0	1500	1511	41	15.66+	394	63.5	18.3	30.8	
6-7 PM	1431	0.0	1499	1431	0	14.62+	367	63.7	19.2	30.8	
7-8 PM	1285	0.0	OFF	1285	0	0.35	19	64.0	60.6	60.6	
8-9 PM	1089	0.0	OFF	1089	0	0.00	0	64.3	64.3	64.3	
9-10 PM	812	0.0	OFF	812	0	0.00	0	64.9	64.9	64.9	
10-11 PM	613	0.0	OFF	613	0	0.00	0	65.3	65.3	65.3	
11PM-MID	382	0.0	OFF	382	0	0.00	0	65.7	65.7	65.7	

"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

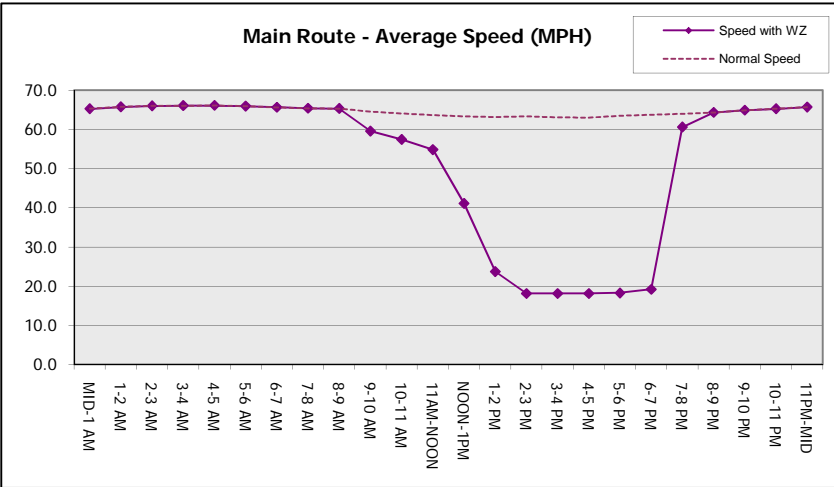
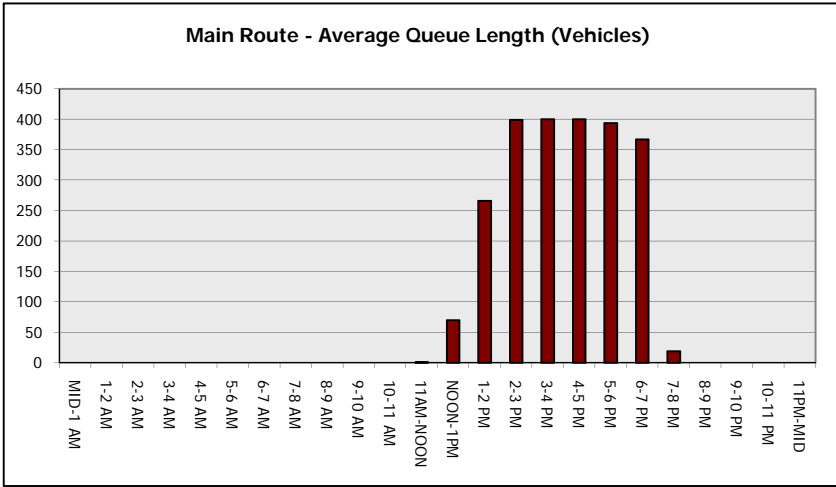
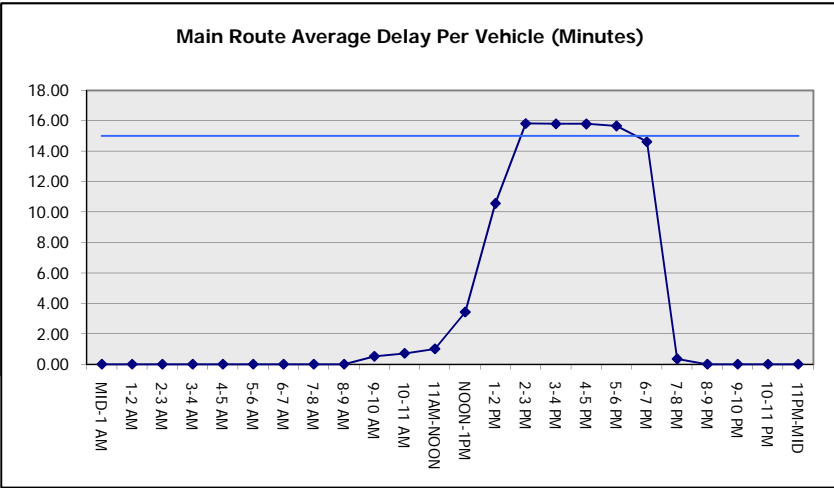
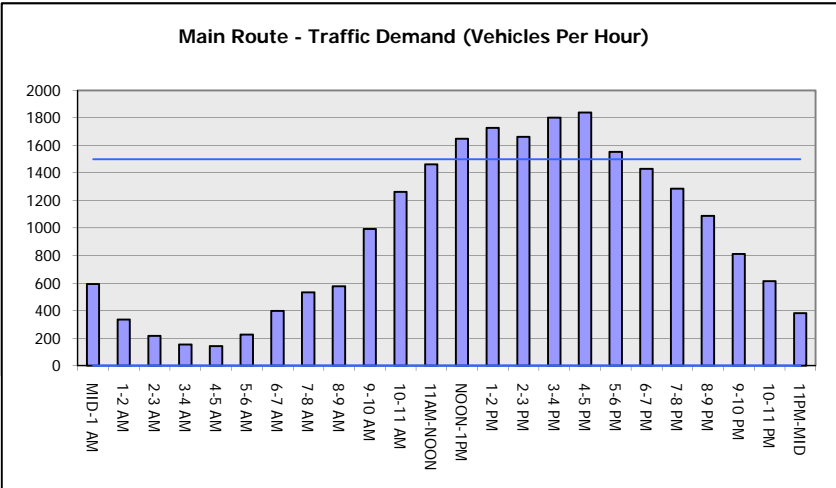
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0242
MAIN ROUTE WITH WORKS	0.0224
'DIVERSION'	0.0021
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$42,614
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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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	513	0.0	OFF	513	0	0.00	0	65.5	65.5	65.5
1-2 AM	243	0.0	OFF	243	0	0.00	0	66.0	66.0	66.0
2-3 AM	173	0.0	OFF	173	0	0.00	0	66.1	66.1	66.1
3-4 AM	142	0.0	OFF	142	0	0.00	0	66.1	66.1	66.1
4-5 AM	158	0.0	OFF	158	0	0.00	0	66.1	66.1	66.1
5-6 AM	267	0.0	OFF	267	0	0.00	0	65.9	65.9	65.9
6-7 AM	404	0.0	OFF	404	0	0.00	0	65.6	65.6	65.6
7-8 AM	480	0.0	OFF	480	0	0.00	0	65.5	65.5	65.5
8-9 AM	651	0.0	OFF	651	0	0.00	0	65.1	65.1	65.1
9-10 AM	1052	0.0	1500	1052	0	0.52	0	64.4	59.4	41.5
10-11 AM	1392	0.0	1499	1392	0	0.88	0	63.8	56.0	33.3
11AM-NOON	1665	0.0	1499	1665	0	3.47	72	63.3	40.9	30.8
NOON-1PM	1694	0.0	1499	1694	0	10.46	261	63.2	23.9	30.8
1-2 PM	1684	0.0	1499	1534	150	15.67+	395	63.2	18.3	30.8
2-3 PM	1552	0.0	1500	1506	46	15.82+	399	63.5	18.1	30.8
3-4 PM	1527	0.0	1500	1500	27	15.85+	400	63.5	18.1	30.8
4-5 PM	1576	0.0	1500	1500	76	15.84+	400	63.5	18.1	30.8
5-6 PM	1484	0.0	1500	1484	0	15.65+	394	63.6	18.3	30.8
6-7 PM	1444	0.0	1500	1444	0	14.38+	360	63.7	19.4	30.8
7-8 PM	1289	0.0	OFF	1289	0	0.35	19	64.0	60.5	60.5
8-9 PM	1225	0.0	OFF	1225	0	0.00	0	64.1	64.1	64.1
9-10 PM	917	0.0	OFF	917	0	0.00	0	64.7	64.7	64.7
10-11 PM	599	0.0	OFF	599	0	0.00	0	65.3	65.3	65.3
11PM-MID	349	0.0	OFF	349	0	0.00	0	65.8	65.8	65.8

"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	0.0240
MAIN ROUTE WITH WORKS	0.0227
'DIVERSION'	0.0007

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$46,288
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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