

IH 43: CTH Y TO HALE INTERCHANGE (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

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	1500	592	0	0.48	0	65.3	60.5	43.2	
1-2 AM	334	0.0	1500	334	0	0.45	0	65.8	61.2	44.2	
2-3 AM	216	0.0	1500	216	0	0.44	0	66.0	61.5	44.6	
3-4 AM	153	0.0	1500	153	0	0.44	0	66.1	61.7	44.9	
4-5 AM	143	0.0	1500	143	0	0.44	0	66.1	61.7	44.9	
5-6 AM	226	0.0	1500	226	0	0.44	0	66.0	61.5	44.6	
6-7 AM	398	0.0	1500	398	0	0.46	0	65.6	61.0	43.9	
7-8 AM	533	0.0	1500	533	0	0.47	0	65.4	60.7	43.4	
8-9 AM	577	0.0	1500	577	0	0.48	0	65.3	60.6	43.2	
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	1499	1285	0	9.13	227	64.0	26.1	31.3	
8-9 PM	1089	0.0	1500	1089	0	1.08	17	64.3	54.9	40.0	
9-10 PM	812	0.0	1500	812	0	0.50	0	64.9	60.0	42.4	
10-11 PM	613	0.0	1500	613	0	0.48	0	65.3	60.5	43.1	
11PM-MID	382	0.0	1500	382	0	0.46	0	65.7	61.1	44.0	

+ 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

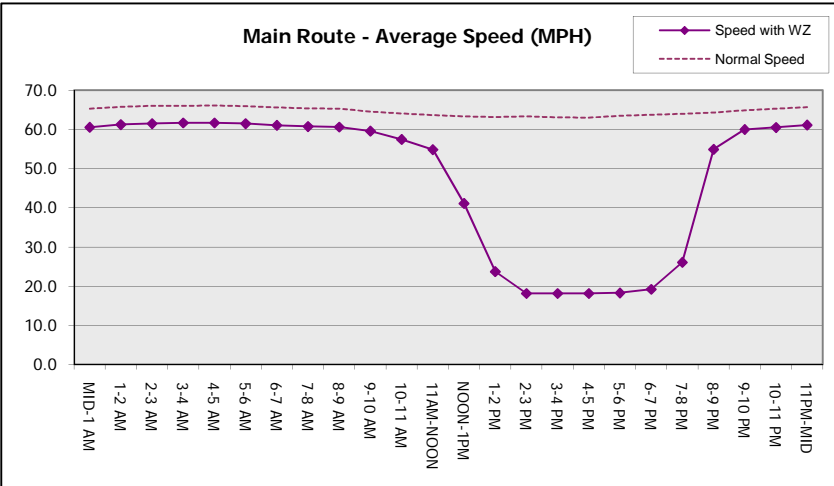
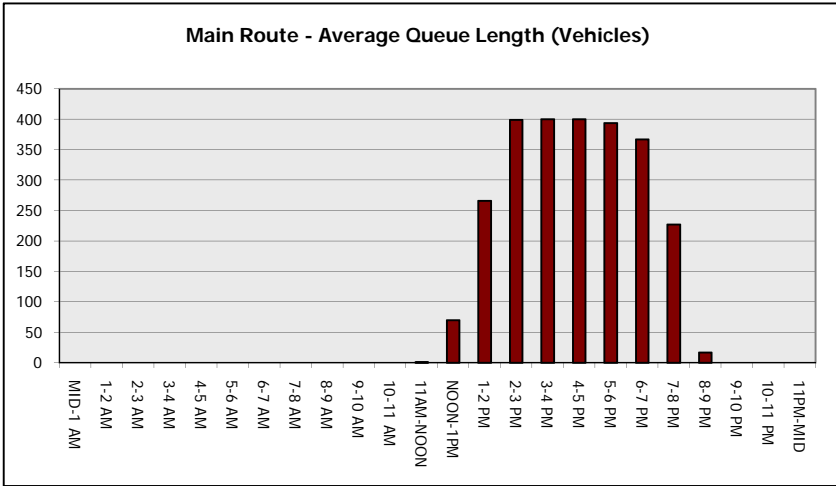
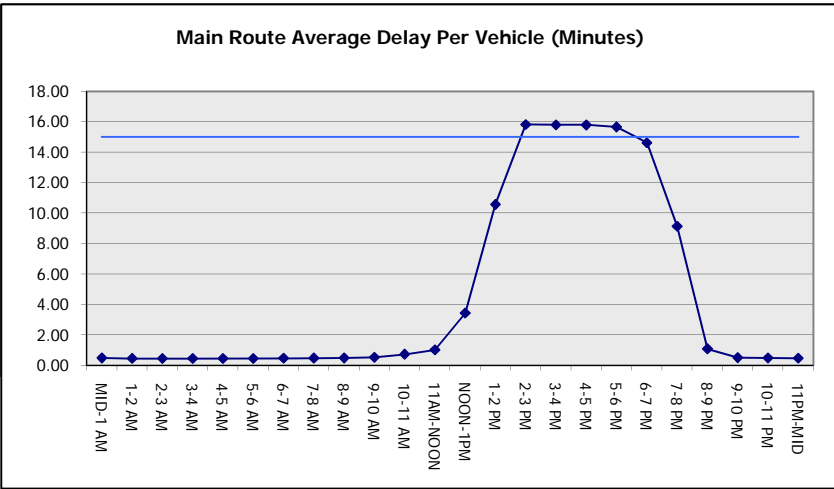
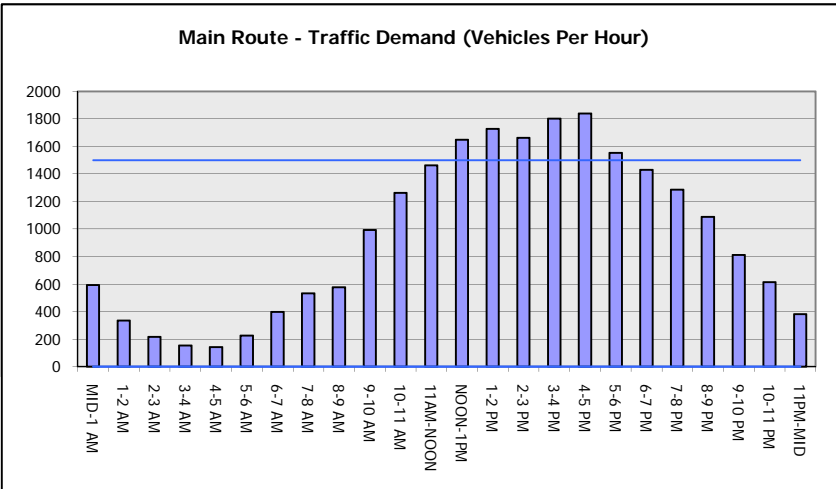
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0242
MAIN ROUTE WITH WORKS	0.0219
'DIVERSION'	0.0021
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$47,992
CONGESTED HOURS PER DAY*	5

*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	1500	513	0	0.47	0	65.5	60.7	43.5
1-2 AM	243	0.0	1500	243	0	0.45	0	66.0	61.4	44.5
2-3 AM	173	0.0	1500	173	0	0.44	0	66.1	61.6	44.8
3-4 AM	142	0.0	1500	142	0	0.44	0	66.1	61.7	44.9
4-5 AM	158	0.0	1500	158	0	0.44	0	66.1	61.7	44.8
5-6 AM	267	0.0	1500	267	0	0.45	0	65.9	61.4	44.4
6-7 AM	404	0.0	1500	404	0	0.46	0	65.6	61.0	43.9
7-8 AM	480	0.0	1500	480	0	0.47	0	65.5	60.9	43.6
8-9 AM	651	0.0	1500	651	0	0.49	0	65.1	60.4	42.9
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	1499	1289	0	9.16	227	64.0	26.0	31.1
8-9 PM	1225	0.0	1500	1225	0	1.62	29	64.1	50.9	36.4
9-10 PM	917	0.0	1500	917	0	0.51	0	64.7	59.7	42.0
10-11 PM	599	0.0	1500	599	0	0.48	0	65.3	60.5	43.2
11PM-MID	349	0.0	1500	349	0	0.46	0	65.8	61.2	44.1

+ 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	0.0222
'DIVERSION'	0.0007

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$52,013
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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