

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

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	528	0.0	OFF	528	0	0.00	0	65.4	65.4	65.4	
1-2 AM	284	0.0	OFF	284	0	0.00	0	65.8	65.8	65.8	
2-3 AM	212	0.0	OFF	212	0	0.00	0	66.0	66.0	66.0	
3-4 AM	172	0.0	OFF	172	0	0.00	0	66.1	66.1	66.1	
4-5 AM	195	0.0	OFF	195	0	0.00	0	66.0	66.0	66.0	
5-6 AM	334	0.0	OFF	334	0	0.00	0	65.8	65.8	65.8	
6-7 AM	559	0.0	OFF	559	0	0.00	0	65.3	65.3	65.3	
7-8 AM	806	0.0	OFF	806	0	0.00	0	64.9	64.9	64.9	
8-9 AM	1010	0.0	1500	1010	0	0.52	0	64.5	59.6	41.7	
9-10 AM	1193	0.0	1500	1193	0	0.63	0	64.1	58.3	38.7	
10-11 AM	1369	0.0	1499	1369	0	0.85	0	63.8	56.2	33.8	
11AM-NOON	1594	0.0	1499	1594	0	2.17	33	63.4	47.2	30.8	
NOON-1PM	1789	0.0	1500	1789	0	9.08	232	63.0	26.0	30.8	
1-2 PM	1783	0.0	1499	1500	283	15.80+	399	63.1	18.1	30.8	
2-3 PM	1830	0.0	1500	1500	330	15.79+	400	63.0	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	1686	0.0	1500	1500	186	15.82+	400	63.2	18.1	30.8	
5-6 PM	1543	0.0	1500	1513	31	15.70+	396	63.5	18.3	30.8	
6-7 PM	1346	0.0	OFF	1346	0	0.52	29	63.9	59.1	59.1	
7-8 PM	1200	0.0	OFF	1200	0	0.00	0	64.1	64.1	64.1	
8-9 PM	1116	0.0	OFF	1116	0	0.00	0	64.3	64.3	64.3	
9-10 PM	947	0.0	OFF	947	0	0.00	0	64.6	64.6	64.6	
10-11 PM	980	0.0	OFF	980	0	0.00	0	64.6	64.6	64.6	
11PM-MID	827	0.0	OFF	827	0	0.00	0	64.8	64.8	64.8	

"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

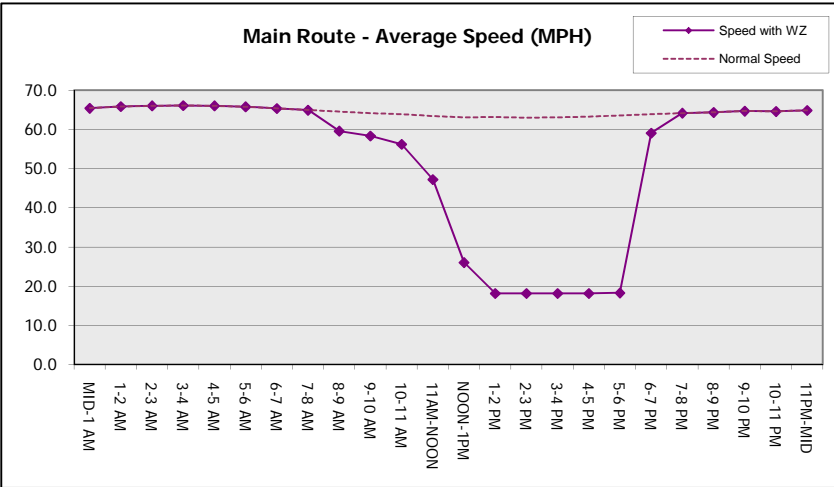
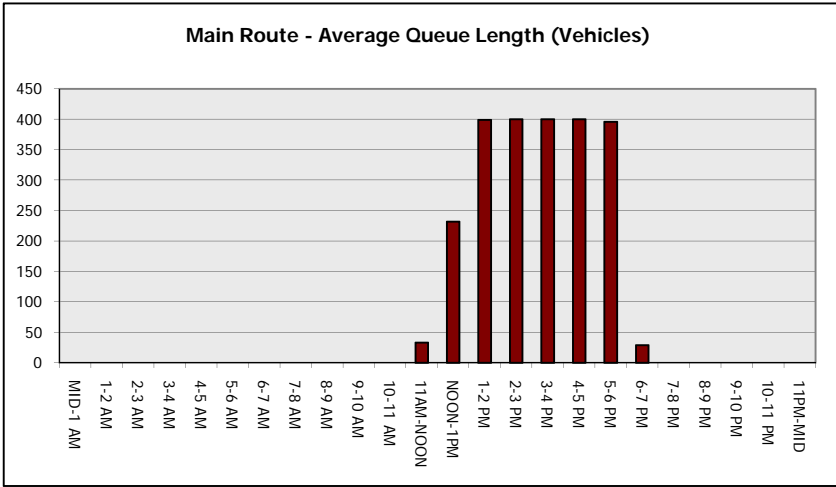
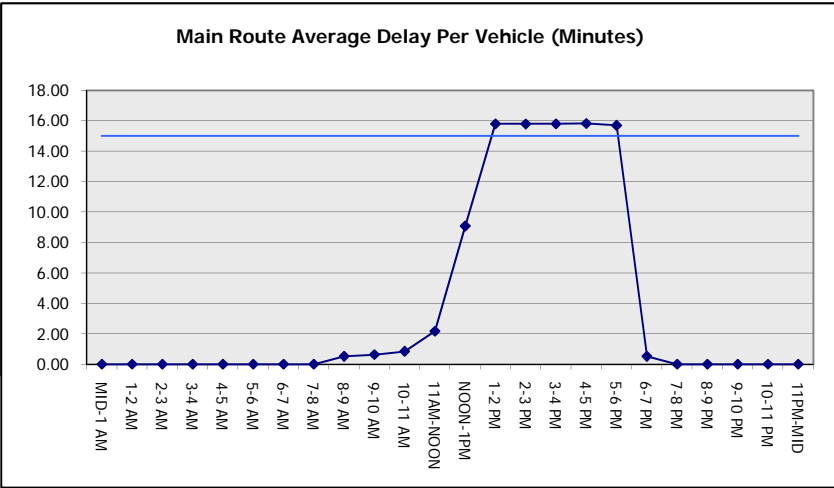
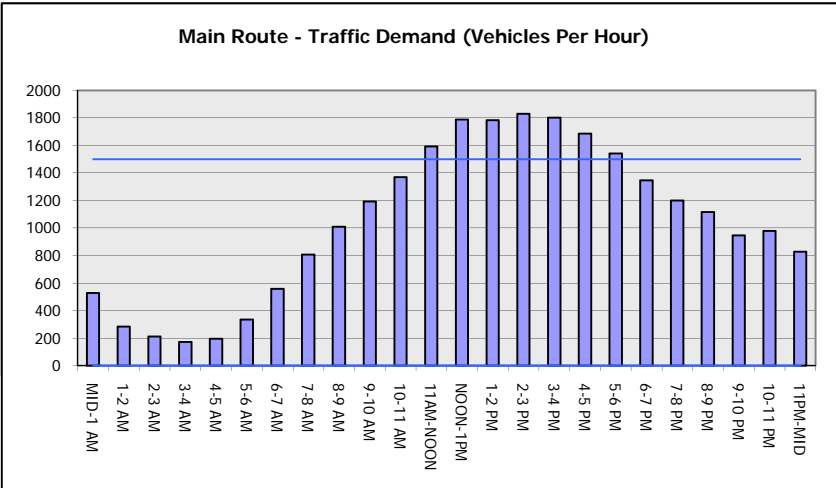
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0268
MAIN ROUTE WITH WORKS	0.0246
'DIVERSION'	0.0028
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$42,634
CONGESTED HOURS PER DAY*	5

*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	385	0.0	OFF	385	0	0.00	0	65.6	65.6	65.6
1-2 AM	229	0.0	OFF	229	0	0.00	0	66.0	66.0	66.0
2-3 AM	187	0.0	OFF	187	0	0.00	0	66.0	66.0	66.0
3-4 AM	182	0.0	OFF	182	0	0.00	0	66.1	66.1	66.1
4-5 AM	294	0.0	OFF	294	0	0.00	0	65.8	65.8	65.8
5-6 AM	520	0.0	OFF	520	0	0.00	0	65.4	65.4	65.4
6-7 AM	792	0.0	OFF	792	0	0.00	0	64.9	64.9	64.9
7-8 AM	938	0.0	OFF	938	0	0.00	0	64.6	64.6	64.6
8-9 AM	1190	0.0	1500	1190	0	0.62	0	64.1	58.4	38.8
9-10 AM	1404	0.0	1499	1404	0	0.90	0	63.8	55.8	32.9
10-11 AM	1649	0.0	1499	1649	0	3.23	65	63.3	41.9	30.8
11AM-NOON	1695	0.0	1499	1695	0	9.78	243	63.2	24.9	30.8
NOON-1PM	1759	0.0	1499	1555	204	15.57+	393	63.1	18.3	30.8
1-2 PM	1786	0.0	1500	1500	286	15.80+	400	63.0	18.1	30.8
2-3 PM	1716	0.0	1500	1500	216	15.81+	400	63.2	18.1	30.8
3-4 PM	1647	0.0	1500	1500	147	15.83+	400	63.3	18.1	30.8
4-5 PM	1659	0.0	1500	1500	159	15.82+	400	63.3	18.1	30.8
5-6 PM	1608	0.0	1500	1500	108	15.83+	400	63.4	18.1	30.8
6-7 PM	1439	0.0	OFF	1439	0	0.54	31	63.7	58.7	58.7
7-8 PM	1140	0.0	OFF	1140	0	0.00	0	64.3	64.3	64.3
8-9 PM	1123	0.0	OFF	1123	0	0.00	0	64.3	64.3	64.3
9-10 PM	835	0.0	OFF	835	0	0.00	0	64.8	64.8	64.8
10-11 PM	709	0.0	OFF	709	0	0.00	0	65.1	65.1	65.1
11PM-MID	694	0.0	OFF	694	0	0.00	0	65.1	65.1	65.1

"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	0.0273
MAIN ROUTE WITH WORKS	0.0251
'DIVERSION'	0.0028

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$49,570
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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