

IH 94: CTH Y/LAYTON AVE TO CTH ZZ/COLLEGE AVE (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR WESTBOUND 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	915	0.0	OFF	915	0	0.00	0	70.2	70.2	70.2
1-2 AM	550	0.0	OFF	550	0	0.00	0	70.2	70.2	70.2
2-3 AM	531	0.0	OFF	531	0	0.00	0	70.2	70.2	70.2
3-4 AM	611	0.0	OFF	611	0	0.00	0	70.2	70.2	70.2
4-5 AM	1026	0.0	OFF	1026	0	0.00	0	70.2	70.2	70.2
5-6 AM	2788	0.0	OFF	2788	0	0.00	0	68.6	68.6	68.6
6-7 AM	5457	0.0	OFF	5457	0	0.00	0	54.9	54.9	54.9
7-8 AM	6096	0.0	OFF	6096	0	0.00	0	50.5	50.5	50.5
8-9 AM	5064	0.0	OFF	5064	0	0.00	0	57.6	57.6	57.6
9-10 AM	4214	0.0	OFF	4214	0	0.00	0	63.3	63.3	63.3
10-11 AM	4073	0.0	1499	1574	2499	17.02+	430	64.3	7.5	39.0
11AM-NOON	4101	0.0	1499	1831	2271	15.30+	397	64.1	8.1	37.4
NOON-1PM	4244	0.0	1499	1500	2744	16.86+	420	63.2	7.5	32.5
1-2 PM	4402	0.0	1500	1500	2902	16.83+	420	62.1	7.5	32.5
2-3 PM	4910	0.0	1500	1500	3410	16.69+	420	58.6	7.5	32.5
3-4 PM	5499	0.0	OFF	5499	0	1.76	163	54.6	30.4	30.4
4-5 PM	5212	0.0	OFF	5212	0	0.00	0	56.6	56.6	56.6
5-6 PM	5026	0.0	OFF	5026	0	0.00	0	57.8	57.8	57.8
6-7 PM	4244	0.0	OFF	4244	0	0.00	0	63.2	63.2	63.2
7-8 PM	3112	0.0	OFF	3112	0	0.00	0	68.2	68.2	68.2
8-9 PM	2552	0.0	OFF	2552	0	0.00	0	68.9	68.9	68.9
9-10 PM	2507	0.0	OFF	2507	0	0.00	0	68.9	68.9	68.9
10-11 PM	1971	0.0	OFF	1971	0	0.00	0	69.6	69.6	69.6
11PM-MID	1391	0.0	OFF	1391	0	0.00	0	70.2	70.2	70.2

"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	0.0256
MAIN ROUTE WITH WORKS	0.0207
'DIVERSION'	0.0102
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$60,704
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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OCTOBER

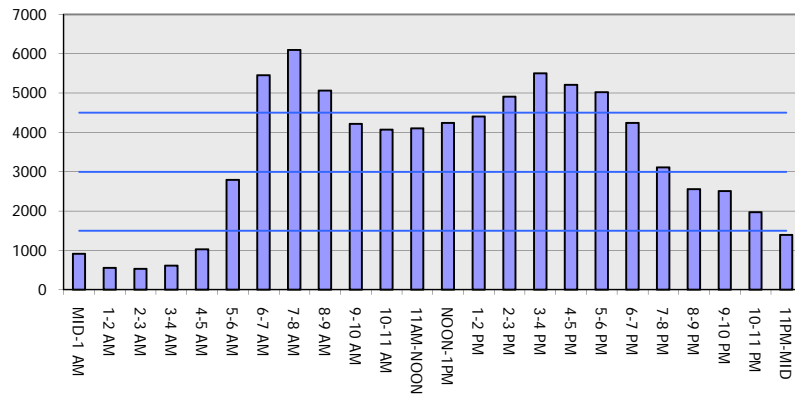
Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

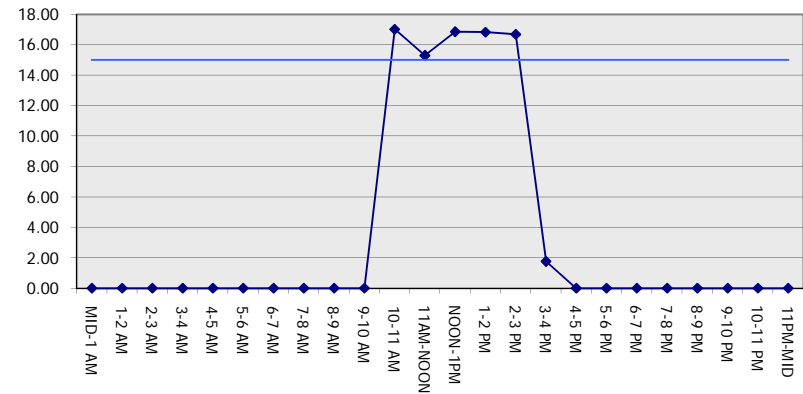
MON-THUR

WESTBOUND DIRECTION

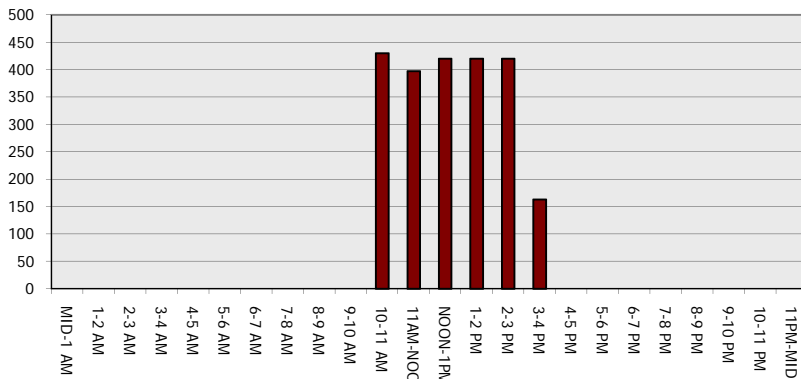
Main Route - Traffic Demand (Vehicles Per Hour)



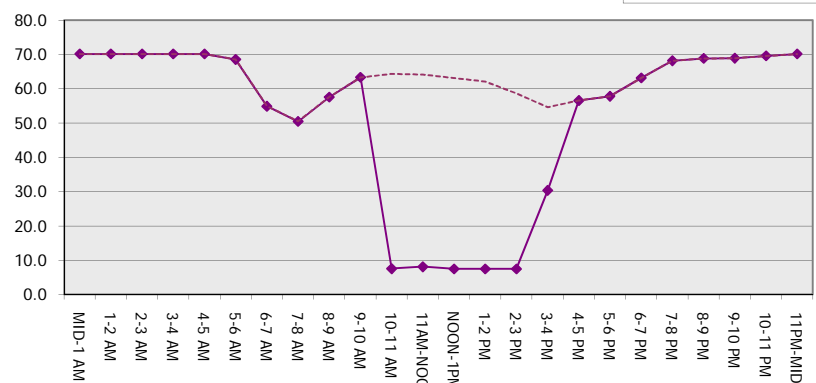
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT	
MON-THUR	EASTBOUND 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	820	0.0	OFF	820	0	0.00	0	70.2	70.2	70.2
1-2 AM	599	0.0	OFF	599	0	0.00	0	70.2	70.2	70.2
2-3 AM	587	0.0	OFF	587	0	0.00	0	70.2	70.2	70.2
3-4 AM	755	0.0	OFF	755	0	0.00	0	70.2	70.2	70.2
4-5 AM	1406	0.0	OFF	1406	0	0.00	0	70.2	70.2	70.2
5-6 AM	3065	0.0	OFF	3065	0	0.00	0	68.2	68.2	68.2
6-7 AM	5212	0.0	OFF	5212	0	0.00	0	56.6	56.6	56.6
7-8 AM	4721	0.0	OFF	4721	0	0.00	0	59.9	59.9	59.9
8-9 AM	4529	0.0	OFF	4529	0	0.00	0	61.2	61.2	61.2
9-10 AM	4032	0.0	OFF	4032	0	0.00	0	64.6	64.6	64.6
10-11 AM	3862	0.0	1499	1574	2289	17.05+	430	65.8	7.5	39.0
11AM-NOON	4142	0.0	1499	1834	2308	15.28+	397	63.8	8.1	37.5
NOON-1PM	4470	0.0	1499	1500	2970	16.81+	420	61.6	7.5	32.5
1-2 PM	4769	0.0	1500	1500	3269	16.73+	420	59.6	7.5	32.5
2-3 PM	5563	0.0	1500	1500	4063	16.49+	420	54.2	7.5	32.5
3-4 PM	6140	0.0	OFF	6140	0	4.74	478	50.2	16.8	16.8
4-5 PM	6543	0.0	OFF	6543	0	8.01	819	47.4	11.4	11.4
5-6 PM	6596	0.0	OFF	6596	0	13.69	1389	47.1	7.4	7.4
6-7 PM	5145	0.0	OFF	5145	0	12.84	1260	57.0	8.0	8.0
7-8 PM	3667	0.0	OFF	3667	0	1.65	148	67.1	34.9	34.9
8-9 PM	2971	0.0	OFF	2971	0	0.00	0	68.4	68.4	68.4
9-10 PM	2693	0.0	OFF	2693	0	0.00	0	68.7	68.7	68.7
10-11 PM	2046	0.0	OFF	2046	0	0.00	0	69.5	69.5	69.5
11PM-MID	1400	0.0	OFF	1400	0	0.00	0	70.2	70.2	70.2

"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	0.0220
'DIVERSION'	0.0110

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$101,858
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR EASTBOUND DIRECTION

