

IH 94: USH 18 TO CTH O (WAUKESHA COUNTY) NIGHTTIME CLOSURE NO DIVERSION (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	909	0.0	3000	909	0	0.35	0	69.6	62.2	49.7
1-2 AM	551	0.0	3000	551	0	0.36	0	70.0	62.4	49.7
2-3 AM	541	0.0	3000	541	0	0.36	0	70.0	62.4	49.7
3-4 AM	414	0.0	3000	414	0	0.36	0	70.2	62.5	49.7
4-5 AM	522	0.0	3000	522	0	0.36	0	70.1	62.4	49.7
5-6 AM	968	0.0	3000	968	0	0.35	0	69.6	62.1	49.7
6-7 AM	1536	0.0	3000	1536	0	0.34	0	68.8	61.7	49.7
7-8 AM	2250	0.0	2999	2250	0	0.35	0	67.9	60.9	49.0
8-9 AM	3048	0.0	OFF	3048	0	0.00	0	66.9	66.9	66.9
9-10 AM	3462	0.0	OFF	3462	0	0.00	0	66.4	66.4	66.4
10-11 AM	3743	0.0	OFF	3743	0	0.00	0	65.3	65.3	65.3
11AM-NOON	4124	0.0	OFF	4124	0	0.00	0	62.7	62.7	62.7
NOON-1PM	4360	0.0	OFF	4360	0	0.00	0	61.0	61.0	61.0
1-2 PM	4223	0.0	OFF	4223	0	0.00	0	62.0	62.0	62.0
2-3 PM	4104	0.0	OFF	4104	0	0.00	0	62.8	62.8	62.8
3-4 PM	3807	0.0	OFF	3807	0	0.00	0	64.8	64.8	64.8
4-5 PM	3813	0.0	OFF	3813	0	0.00	0	64.8	64.8	64.8
5-6 PM	3273	0.0	OFF	3273	0	0.00	0	66.7	66.7	66.7
6-7 PM	3324	0.0	2999	3324	0	3.83	188	66.6	29.6	37.3
7-8 PM	2435	0.0	2999	2435	0	1.89	120	67.7	41.6	44.5
8-9 PM	2122	0.0	3000	2122	0	0.33	0	68.1	61.3	49.7
9-10 PM	2103	0.0	3000	2103	0	0.33	0	68.1	61.3	49.7
10-11 PM	2290	0.0	3000	2290	0	0.33	0	67.9	61.2	49.7
11PM-MID	1465	0.0	3000	1465	0	0.34	0	68.9	61.7	49.7

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

----- 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	0.0321
MAIN ROUTE WITH WORKS	0.0307
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$6,422
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

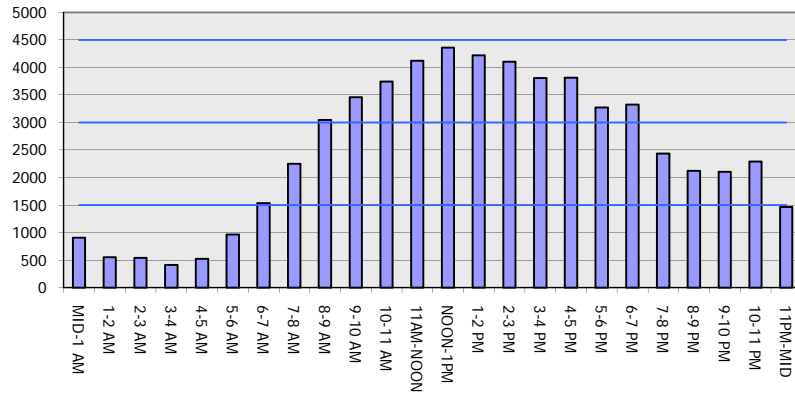
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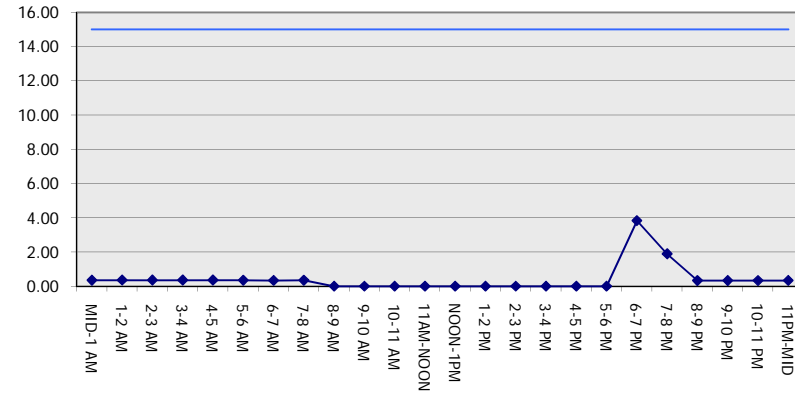
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION

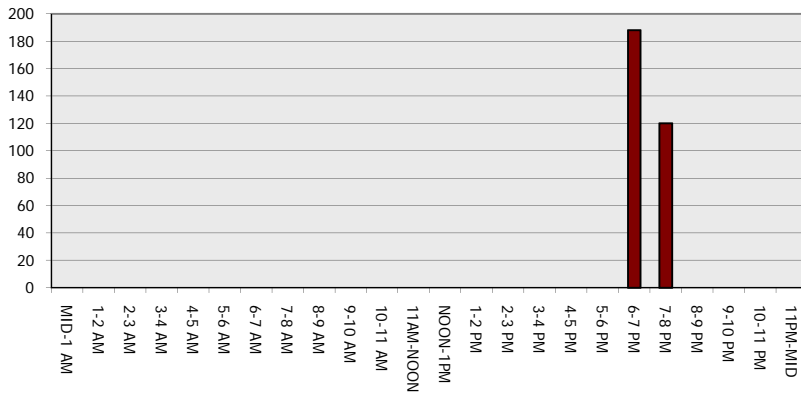
Main Route - Traffic Demand (Vehicles Per Hour)



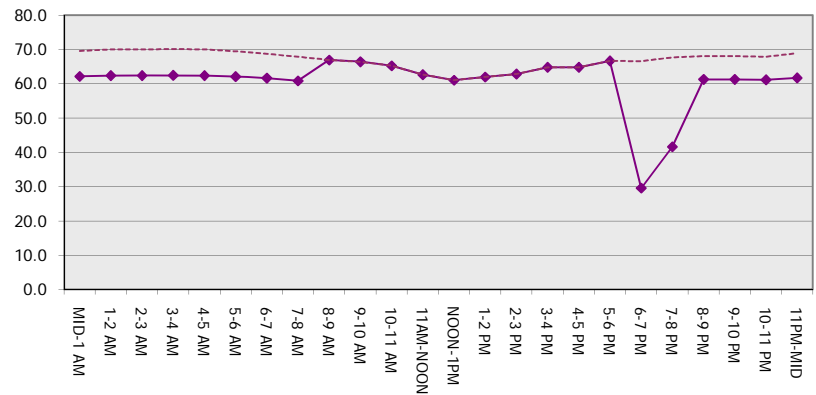
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	971	0.0	3000	971	0	0.35	0	69.6	62.1	49.7
1-2 AM	487	0.0	3000	487	0	0.36	0	70.1	62.4	49.7
2-3 AM	377	0.0	3000	377	0	0.36	0	70.2	62.5	49.7
3-4 AM	253	0.0	3000	253	0	0.36	0	70.2	62.5	49.7
4-5 AM	352	0.0	3000	352	0	0.36	0	70.2	62.5	49.7
5-6 AM	803	0.0	3000	803	0	0.35	0	69.7	62.2	49.7
6-7 AM	1320	0.0	3000	1320	0	0.35	0	69.1	61.9	49.7
7-8 AM	1791	0.0	3000	1791	0	0.34	0	68.5	61.5	49.7
8-9 AM	2660	0.0	OFF	2660	0	0.00	0	67.4	67.4	67.4
9-10 AM	3069	0.0	OFF	3069	0	0.00	0	66.9	66.9	66.9
10-11 AM	3305	0.0	OFF	3305	0	0.00	0	66.6	66.6	66.6
11AM-NOON	3699	0.0	OFF	3699	0	0.00	0	65.6	65.6	65.6
NOON-1PM	3998	0.0	OFF	3998	0	0.00	0	63.5	63.5	63.5
1-2 PM	3927	0.0	OFF	3927	0	0.00	0	64.0	64.0	64.0
2-3 PM	4028	0.0	OFF	4028	0	0.00	0	63.3	63.3	63.3
3-4 PM	3996	0.0	OFF	3996	0	0.00	0	63.5	63.5	63.5
4-5 PM	4114	0.0	OFF	4114	0	0.00	0	62.7	62.7	62.7
5-6 PM	4362	0.0	OFF	4362	0	0.00	0	61.0	61.0	61.0
6-7 PM	4023	0.0	2999	3920	104	8.92+	531	63.3	17.5	37.3
7-8 PM	3223	0.0	2999	2917	306	15.76+	829	66.8	12.2	37.3
8-9 PM	2435	0.0	2999	2435	0	10.56+	573	67.7	15.5	38.3
9-10 PM	2605	0.0	3000	2605	0	1.87	99	67.5	41.7	41.8
10-11 PM	2168	0.0	3000	2168	0	0.33	0	68.1	61.2	49.7
11PM-MID	1609	0.0	3000	1609	0	0.34	0	68.7	61.7	49.7

"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 (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	0.0322
MAIN ROUTE WITH WORKS	0.0305
'DIVERSION'	0.0005

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$34,191
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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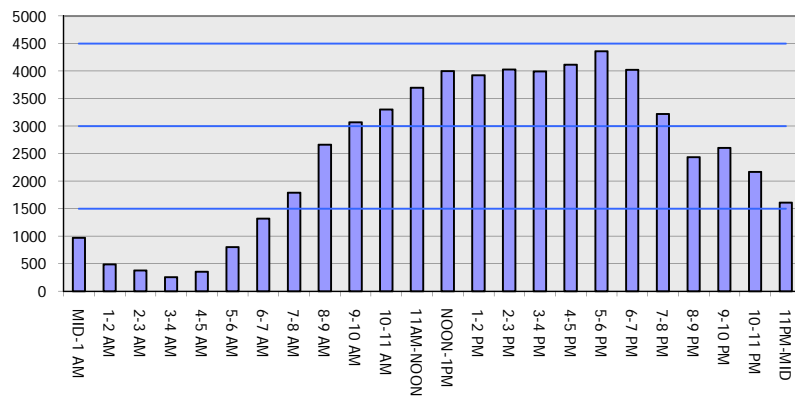
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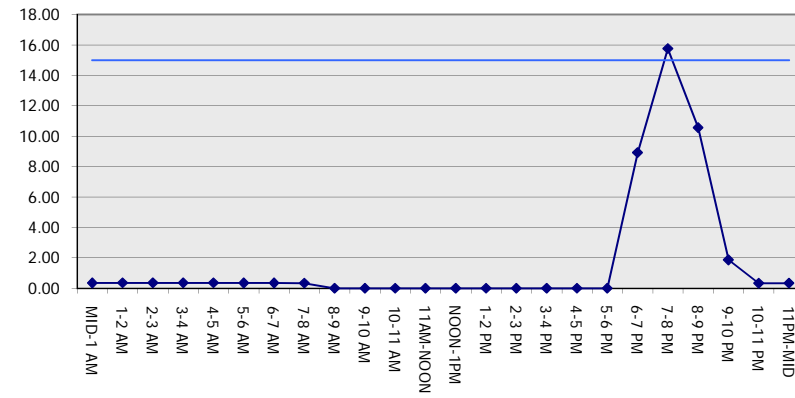
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY EASTBOUND DIRECTION

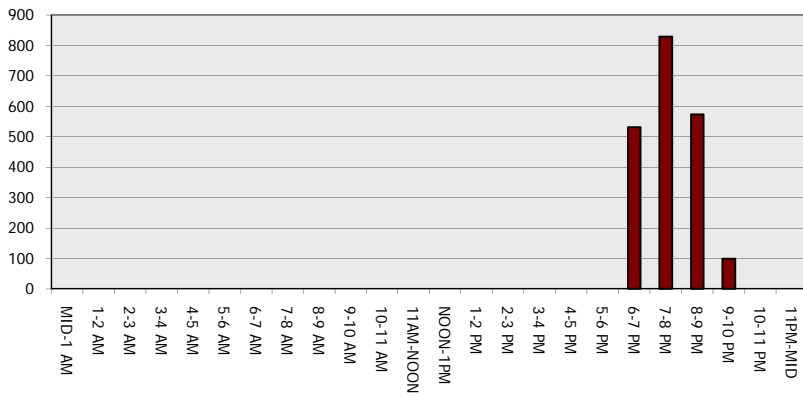
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

