

IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	2108	0.0	1500	1500	608	16.76+	410	68.1	7.6	30.8	
1-2 AM	1286	0.0	1499	1286	0	13.23+	325	69.1	8.9	31.0	
2-3 AM	1336	0.0	1500	1336	0	5.51	128	69.1	17.2	31.9	
3-4 AM	789	0.0	1500	789	0	0.59	0	69.7	52.7	42.4	
4-5 AM	662	0.0	1500	662	0	0.55	0	69.9	53.5	42.9	
5-6 AM	1014	0.0	1499	1014	0	0.60	0	69.5	52.3	41.4	
6-7 AM	1593	0.0	1499	1593	0	1.85	29	68.7	34.2	31.3	
7-8 AM	2130	0.0	1500	1738	392	12.58+	322	68.1	9.3	30.8	
8-9 AM	2888	0.0	OFF	2888	0	0.21	20	67.1	60.3	60.3	
9-10 AM	3458	0.0	OFF	3458	0	0.00	0	66.4	66.4	66.4	
10-11 AM	4014	0.0	OFF	4014	0	0.00	0	63.4	63.4	63.4	
11AM-NOON	4368	0.0	OFF	4368	0	0.00	0	61.0	61.0	61.0	
NOON-1PM	4622	0.0	OFF	4622	0	0.00	0	59.3	59.3	59.3	
1-2 PM	4496	0.0	OFF	4496	0	0.00	0	60.1	60.1	60.1	
2-3 PM	4600	0.0	OFF	4600	0	0.00	0	59.4	59.4	59.4	
3-4 PM	4638	0.0	OFF	4638	0	0.00	0	59.2	59.2	59.2	
4-5 PM	4418	0.0	OFF	4418	0	0.00	0	60.7	60.7	60.7	
5-6 PM	4131	0.0	OFF	4131	0	0.00	0	62.7	62.7	62.7	
6-7 PM	3380	0.0	1499	1571	1809	17.10+	428	66.5	7.6	36.6	
7-8 PM	2912	0.0	1499	1646	1266	14.82+	388	67.1	8.4	35.7	
8-9 PM	2966	0.0	1499	1685	1281	16.36+	402	67.1	7.8	30.8	
9-10 PM	2409	0.0	1500	1501	908	16.76+	410	67.8	7.6	30.8	
10-11 PM	3344	0.0	1499	1500	1844	16.96+	417	66.6	7.6	30.8	
11PM-MID	2916	0.0	1500	1506	1410	16.87+	414	67.1	7.6	30.8	

"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	0.0236
MAIN ROUTE WITH WORKS	0.0191
'DIVERSION'	0.0074
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$98,515
CONGESTED HOURS PER DAY*	9

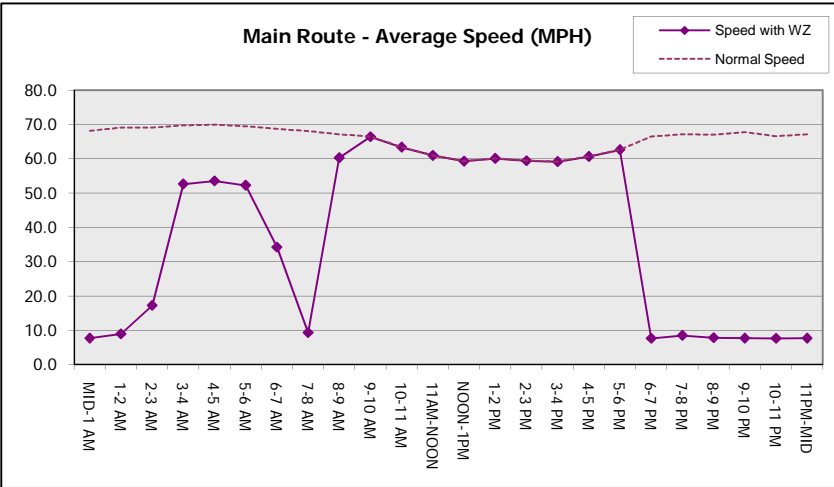
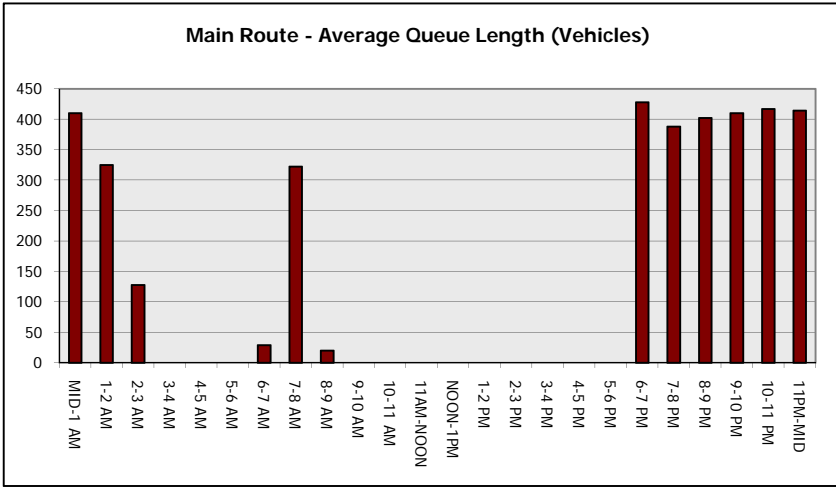
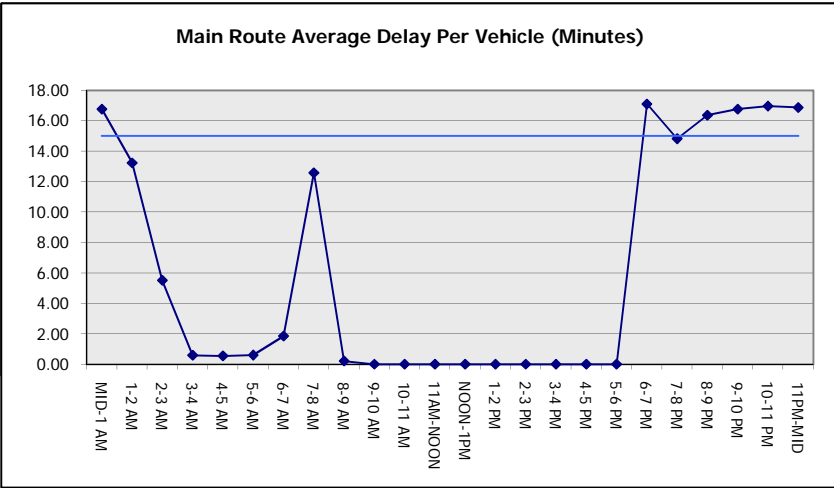
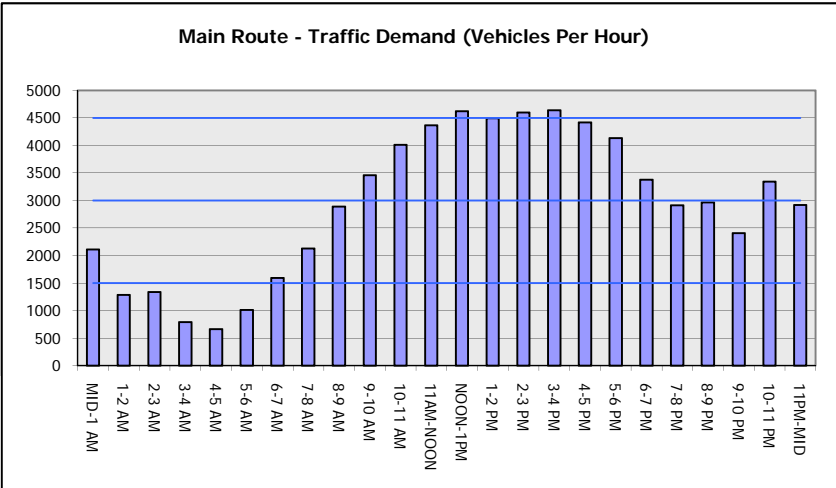
*Delays Exceeding User-Specified Maximum

**IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)
NIGHTTIME 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY WESTBOUND DIRECTION



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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	1237	0.0	1500	1237	0	10.91	279	69.2	10.2	33.0
1-2 AM	596	0.0	1500	596	0	0.67	6	70.0	51.0	43.1
2-3 AM	533	0.0	1500	533	0	0.54	0	70.0	54.0	43.4
3-4 AM	383	0.0	1500	383	0	0.52	0	70.2	54.4	44.0
4-5 AM	484	0.0	1500	484	0	0.53	0	70.1	54.1	43.6
5-6 AM	815	0.0	1500	815	0	0.57	0	69.7	53.1	42.4
6-7 AM	1240	0.0	1499	1240	0	0.75	0	69.2	49.0	37.5
7-8 AM	1709	0.0	1499	1709	0	3.40	78	68.6	24.0	30.8
8-9 AM	2067	0.0	OFF	2067	0	0.06	5	68.2	66.0	66.0
9-10 AM	2655	0.0	OFF	2655	0	0.00	0	67.4	67.4	67.4
10-11 AM	2944	0.0	OFF	2944	0	0.00	0	67.1	67.1	67.1
11AM-NOON	3517	0.0	OFF	3517	0	0.00	0	66.4	66.4	66.4
NOON-1PM	3712	0.0	OFF	3712	0	0.00	0	65.5	65.5	65.5
1-2 PM	3692	0.0	OFF	3692	0	0.00	0	65.6	65.6	65.6
2-3 PM	3892	0.0	OFF	3892	0	0.00	0	64.3	64.3	64.3
3-4 PM	3843	0.0	OFF	3843	0	0.00	0	64.6	64.6	64.6
4-5 PM	3744	0.0	OFF	3744	0	0.00	0	65.3	65.3	65.3
5-6 PM	3918	0.0	OFF	3918	0	0.00	0	64.1	64.1	64.1
6-7 PM	3704	0.0	1499	1571	2133	17.08+	428	65.6	7.6	36.6
7-8 PM	3232	0.0	1499	1695	1537	14.92+	388	66.7	8.4	35.5
8-9 PM	2871	0.0	1499	1553	1318	16.67+	412	67.2	7.7	32.9
9-10 PM	2402	0.0	1500	1519	883	16.78+	412	67.8	7.6	31.6
10-11 PM	2511	0.0	1500	1518	993	16.83+	412	67.6	7.6	30.8
11PM-MID	2161	0.0	1500	1505	656	16.77+	410	68.1	7.6	30.8

"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	0.0193
MAIN ROUTE WITH WORKS	0.0157
'DIVERSION'	0.0058

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$76,349
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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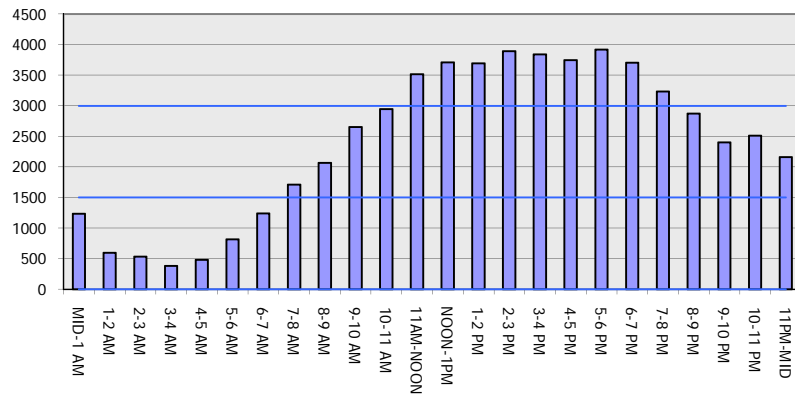
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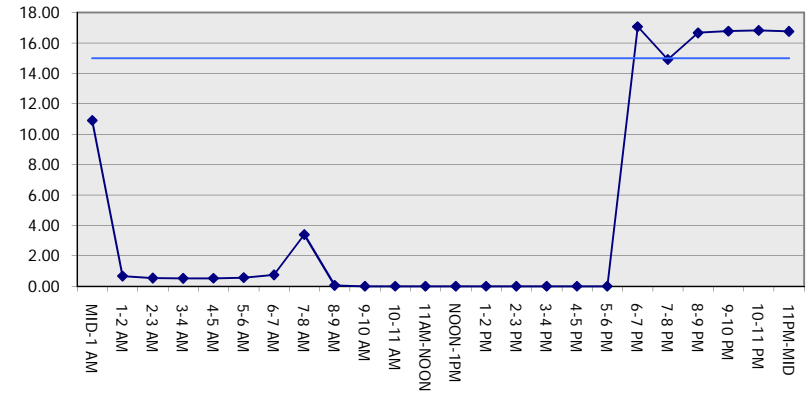
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY EASTBOUND DIRECTION

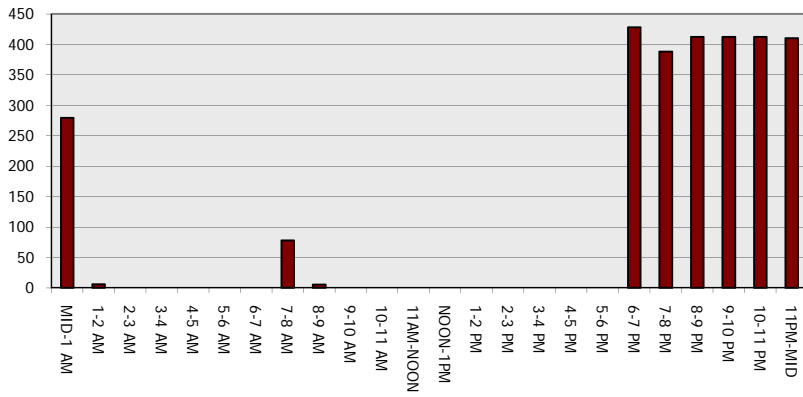
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

