

IH 794: IH 43 TO LINCOLN MEMORIAL DR (MILWAUKEE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	889	0.0	OFF	889	0	0.00	0	69.6	69.6	69.6
1-2 AM	823	0.0	OFF	823	0	0.00	0	69.7	69.7	69.7
2-3 AM	449	0.0	OFF	449	0	0.00	0	70.2	70.2	70.2
3-4 AM	347	0.0	OFF	347	0	0.00	0	70.2	70.2	70.2
4-5 AM	569	0.0	OFF	569	0	0.00	0	70.0	70.0	70.0
5-6 AM	1501	0.0	OFF	1501	0	0.00	0	68.9	68.9	68.9
6-7 AM	3326	0.0	OFF	3326	0	0.00	0	66.6	66.6	66.6
7-8 AM	4266	0.0	OFF	4266	0	0.00	0	61.7	61.7	61.7
8-9 AM	3159	0.0	OFF	3159	0	0.00	0	66.8	66.8	66.8
9-10 AM	2730	0.0	OFF	2730	0	0.00	0	67.3	67.3	67.3
10-11 AM	3037	0.0	1499	1714	1323	15.04+	387	66.9	5.7	35.8
11AM-NOON	3727	0.0	1499	1641	2086	16.69+	425	65.4	5.4	31.4
NOON-1PM	3812	0.0	1500	1502	2310	17.06+	435	64.8	5.3	31.7
1-2 PM	3953	0.0	1500	1500	2453	17.05+	435	63.8	5.3	31.7
2-3 PM	4516	0.0	1500	1500	3016	16.95+	435	60.0	5.3	31.7
3-4 PM	4822	0.0	OFF	4822	0	0.59	54	57.9	36.9	36.9
4-5 PM	4886	0.0	OFF	4886	0	0.00	0	57.5	57.5	57.5
5-6 PM	3989	0.0	OFF	3989	0	0.00	0	63.6	63.6	63.6
6-7 PM	2858	0.0	OFF	2858	0	0.00	0	67.2	67.2	67.2
7-8 PM	2158	0.0	OFF	2158	0	0.00	0	68.1	68.1	68.1
8-9 PM	2166	0.0	OFF	2166	0	0.00	0	68.1	68.1	68.1
9-10 PM	2353	0.0	OFF	2353	0	0.00	0	67.8	67.8	67.8
10-11 PM	2442	0.0	OFF	2442	0	0.00	0	67.7	67.7	67.7
11PM-MID	2049	0.0	OFF	2049	0	0.00	0	68.2	68.2	68.2

"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

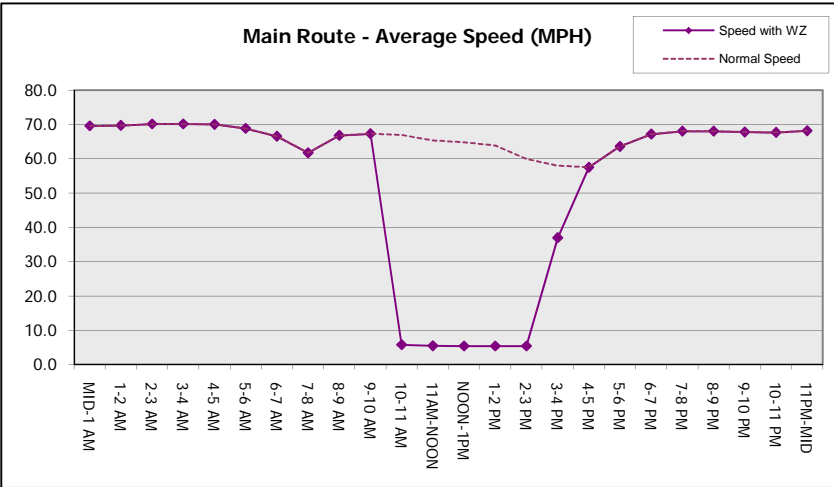
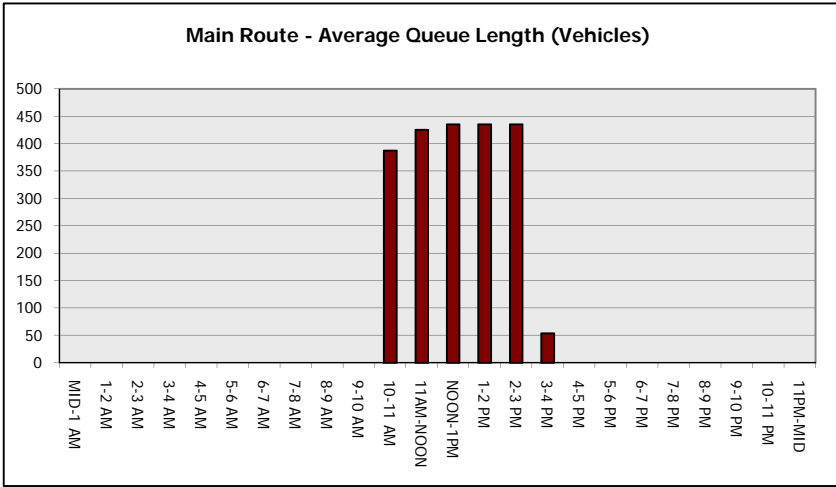
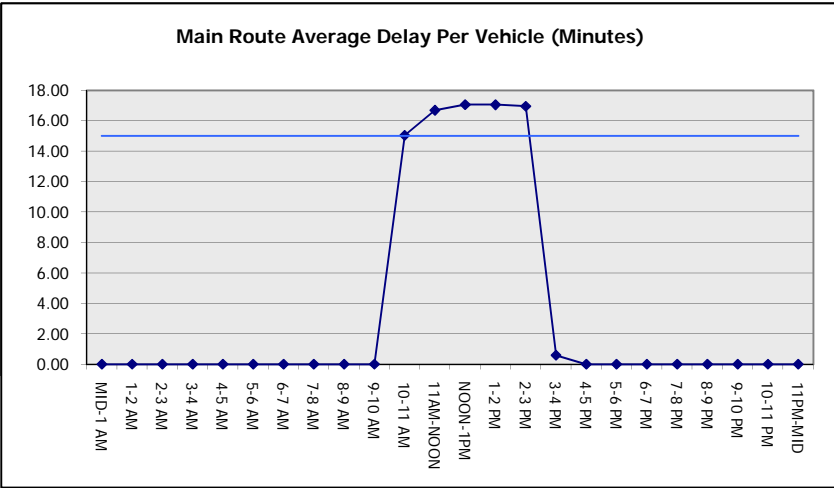
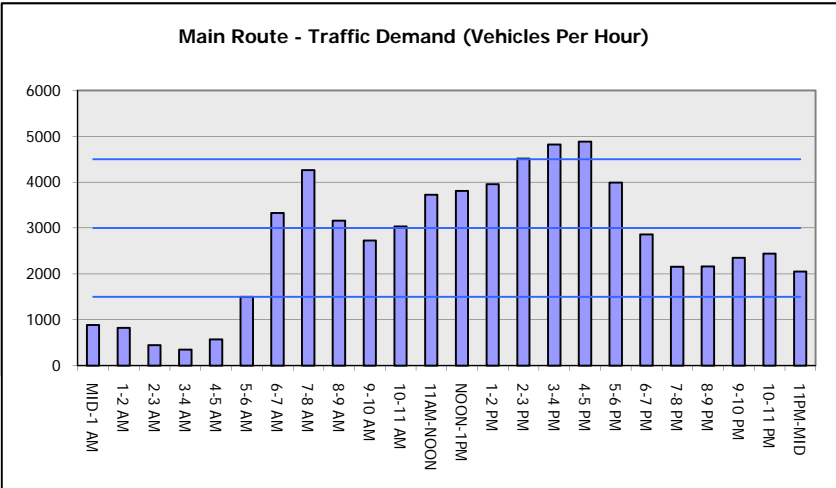
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0103
MAIN ROUTE WITH WORKS	0.0077
'DIVERSION'	0.0041
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$71,210
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	637	0.0	OFF	637	0	0.00	0	69.9	69.9	69.9
1-2 AM	424	0.0	OFF	424	0	0.00	0	70.2	70.2	70.2
2-3 AM	307	0.0	OFF	307	0	0.00	0	70.2	70.2	70.2
3-4 AM	361	0.0	OFF	361	0	0.00	0	70.2	70.2	70.2
4-5 AM	832	0.0	OFF	832	0	0.00	0	69.7	69.7	69.7
5-6 AM	2668	0.0	OFF	2668	0	0.00	0	67.4	67.4	67.4
6-7 AM	4733	0.0	OFF	4733	0	0.00	0	58.5	58.5	58.5
7-8 AM	5414	0.0	OFF	5414	0	0.00	0	53.8	53.8	53.8
8-9 AM	4312	0.0	OFF	4312	0	0.00	0	61.4	61.4	61.4
9-10 AM	3187	0.0	OFF	3187	0	0.00	0	66.8	66.8	66.8
10-11 AM	3078	0.0	1499	1587	1491	16.17+	413	66.9	5.5	36.5
11AM-NOON	3270	0.0	1499	1740	1529	15.28+	402	66.7	5.7	34.9
NOON-1PM	3292	0.0	1499	1547	1745	16.93+	430	66.6	5.4	31.2
1-2 PM	3412	0.0	1500	1515	1897	17.07+	433	66.5	5.3	30.8
2-3 PM	3506	0.0	1500	1503	2003	17.13+	435	66.4	5.3	30.8
3-4 PM	3871	0.0	OFF	3871	0	0.40	36	64.4	45.0	45.0
4-5 PM	4148	0.0	OFF	4148	0	0.00	0	62.5	62.5	62.5
5-6 PM	3971	0.0	OFF	3971	0	0.00	0	63.7	63.7	63.7
6-7 PM	3782	0.0	OFF	3782	0	0.00	0	65.0	65.0	65.0
7-8 PM	2904	0.0	OFF	2904	0	0.00	0	67.1	67.1	67.1
8-9 PM	2644	0.0	OFF	2644	0	0.00	0	67.4	67.4	67.4
9-10 PM	2601	0.0	OFF	2601	0	0.00	0	67.5	67.5	67.5
10-11 PM	2203	0.0	OFF	2203	0	0.00	0	68.0	68.0	68.0
11PM-MID	1457	0.0	OFF	1457	0	0.00	0	68.9	68.9	68.9

"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	0.0107
MAIN ROUTE WITH WORKS	0.0084
'DIVERSION'	0.0032

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$61,324
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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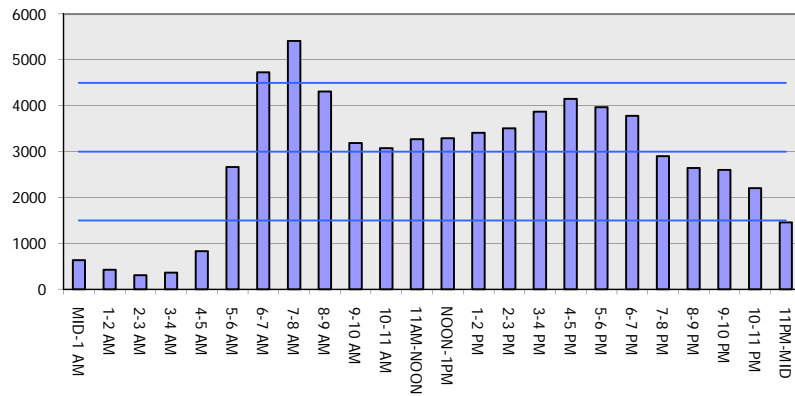
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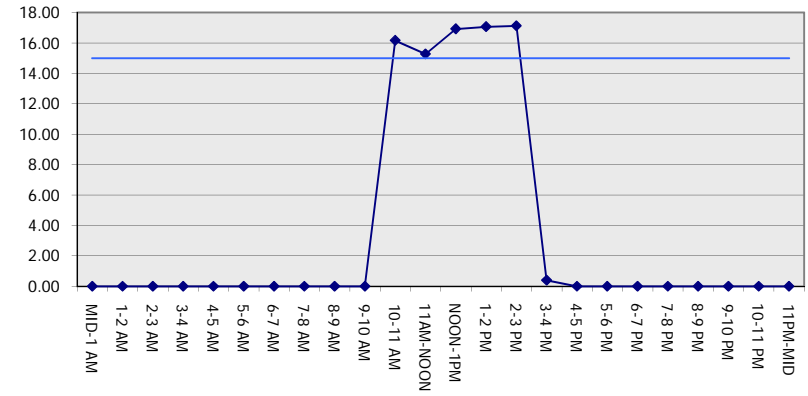
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY EASTBOUND DIRECTION

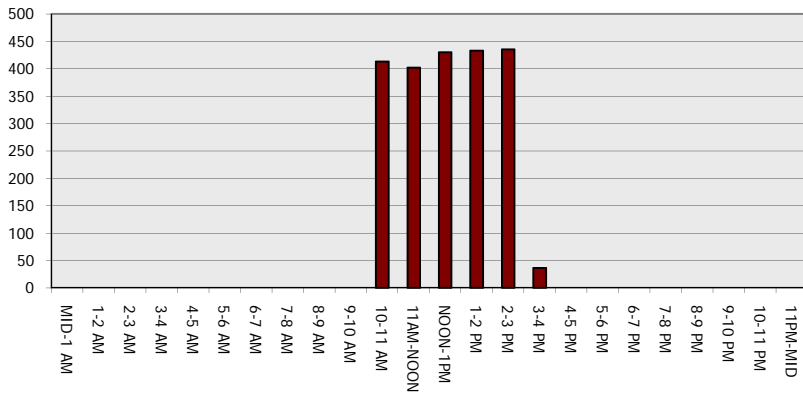
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

