

**IH 794: IH 43 TO LINCOLN MEMORIAL DR (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
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	320	0.0	OFF	320	0	0.00	0	70.2	70.2	70.2	
1-2 AM	257	0.0	OFF	257	0	0.00	0	70.2	70.2	70.2	
2-3 AM	184	0.0	OFF	184	0	0.00	0	70.2	70.2	70.2	
3-4 AM	167	0.0	OFF	167	0	0.00	0	70.2	70.2	70.2	
4-5 AM	267	0.0	OFF	267	0	0.00	0	70.2	70.2	70.2	
5-6 AM	779	0.0	OFF	779	0	0.00	0	69.7	69.7	69.7	
6-7 AM	2002	0.0	OFF	2002	0	0.00	0	68.2	68.2	68.2	
7-8 AM	2694	0.0	OFF	2694	0	0.00	0	67.4	67.4	67.4	
8-9 AM	1811	0.0	OFF	1811	0	0.00	0	68.5	68.5	68.5	
9-10 AM	1442	0.0	OFF	1442	0	0.00	0	68.9	68.9	68.9	
10-11 AM	1489	0.0	1499	1489	0	0.65	3	68.9	39.5	31.3	
11AM-NOON	1730	0.0	1500	1730	0	4.38	120	68.6	12.0	30.8	
NOON-1PM	1727	0.0	1499	1692	35	13.72+	349	68.6	5.9	30.8	
1-2 PM	1812	0.0	1500	1498	314	16.65+	421	68.5	5.4	30.8	
2-3 PM	2150	0.0	1499	1499	651	16.66+	422	68.1	5.4	30.8	
3-4 PM	2214	0.0	OFF	2214	0	0.25	24	68.0	52.8	52.8	
4-5 PM	2121	0.0	OFF	2121	0	0.00	0	68.1	68.1	68.1	
5-6 PM	2023	0.0	OFF	2023	0	0.00	0	68.2	68.2	68.2	
6-7 PM	1469	0.0	OFF	1469	0	0.00	0	68.9	68.9	68.9	
7-8 PM	974	0.0	OFF	974	0	0.00	0	69.6	69.6	69.6	
8-9 PM	868	0.0	OFF	868	0	0.00	0	69.7	69.7	69.7	
9-10 PM	1040	0.0	OFF	1040	0	0.00	0	69.4	69.4	69.4	
10-11 PM	824	0.0	OFF	824	0	0.00	0	69.7	69.7	69.7	
11PM-MID	669	0.0	OFF	669	0	0.00	0	69.9	69.9	69.9	

"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	0.0049
MAIN ROUTE WITH WORKS	0.0039
'DIVERSION'	0.0004
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$21,833
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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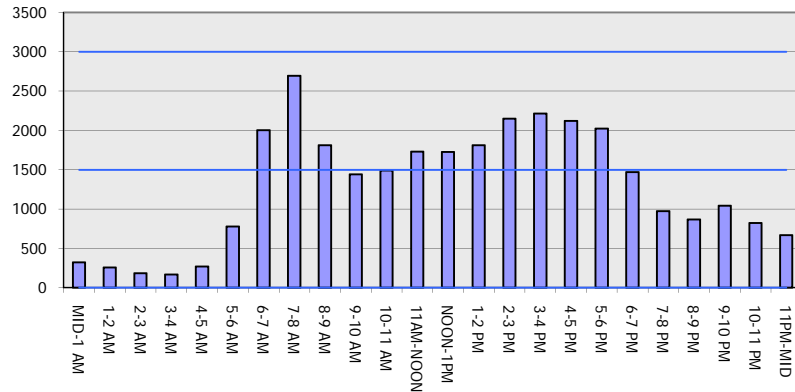
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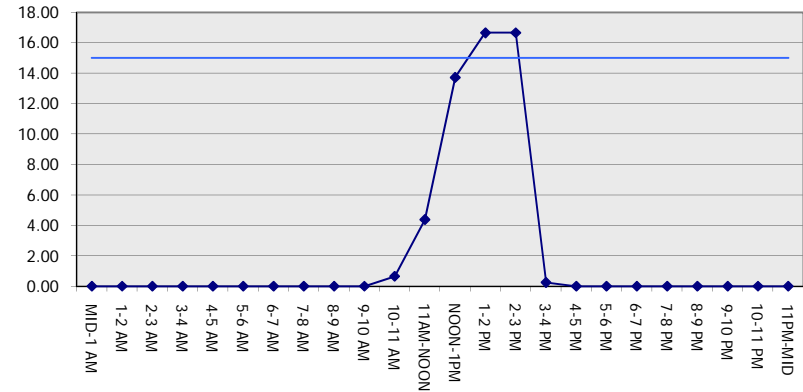
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY WESTBOUND DIRECTION

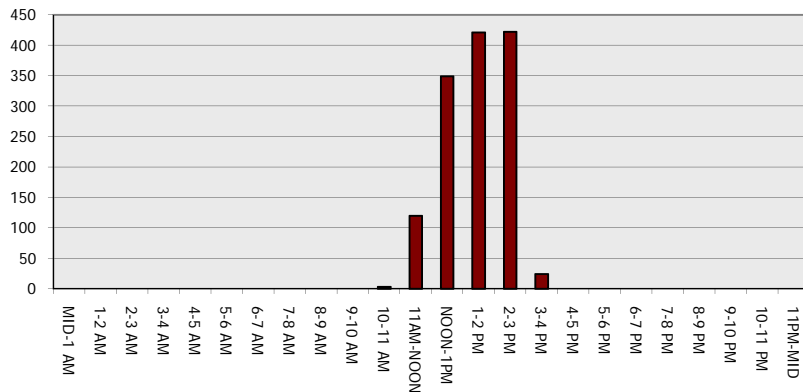
Main Route - Traffic Demand (Vehicles Per Hour)



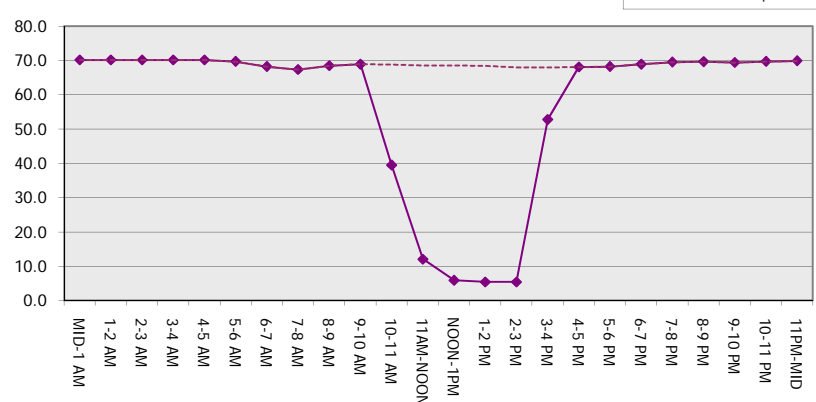
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

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	442	0.0	OFF	442	0	0.00	0	70.2	70.2	70.2
1-2 AM	289	0.0	OFF	289	0	0.00	0	70.2	70.2	70.2
2-3 AM	218	0.0	OFF	218	0	0.00	0	70.2	70.2	70.2
3-4 AM	275	0.0	OFF	275	0	0.00	0	70.2	70.2	70.2
4-5 AM	568	0.0	OFF	568	0	0.00	0	70.0	70.0	70.0
5-6 AM	2409	0.0	OFF	2409	0	0.00	0	67.8	67.8	67.8
6-7 AM	4300	0.0	OFF	4300	0	0.00	0	61.5	61.5	61.5
7-8 AM	4823	0.0	OFF	4823	0	0.00	0	57.9	57.9	57.9
8-9 AM	4476	0.0	OFF	4476	0	0.00	0	60.3	60.3	60.3
9-10 AM	3106	0.0	OFF	3106	0	0.00	0	66.9	66.9	66.9
10-11 AM	2641	0.0	1499	1927	714	13.76+	353	67.4	6.0	32.1
11AM-NOON	3026	0.0	1499	1504	1521	17.03+	432	66.9	5.3	30.8
NOON-1PM	2930	0.0	1500	1499	1431	16.95+	430	67.1	5.4	30.8
1-2 PM	3173	0.0	1499	1502	1670	17.13+	435	66.8	5.3	30.8
2-3 PM	3291	0.0	1500	1500	1791	17.14+	435	66.6	5.3	30.8
3-4 PM	3818	0.0	OFF	3818	0	0.47	42	64.8	42.8	42.8
4-5 PM	4305	0.0	OFF	4305	0	0.00	0	61.4	61.4	61.4
5-6 PM	4676	0.0	OFF	4676	0	0.00	0	58.9	58.9	58.9
6-7 PM	3910	0.0	OFF	3910	0	0.00	0	64.1	64.1	64.1
7-8 PM	2898	0.0	OFF	2898	0	0.00	0	67.1	67.1	67.1
8-9 PM	2309	0.0	OFF	2309	0	0.00	0	67.9	67.9	67.9
9-10 PM	2473	0.0	OFF	2473	0	0.00	0	67.7	67.7	67.7
10-11 PM	1974	0.0	OFF	1974	0	0.00	0	68.3	68.3	68.3
11PM-MID	1332	0.0	OFF	1332	0	0.00	0	69.1	69.1	69.1

"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	0.0101
MAIN ROUTE WITH WORKS	0.0081
'DIVERSION'	0.0026

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$55,276
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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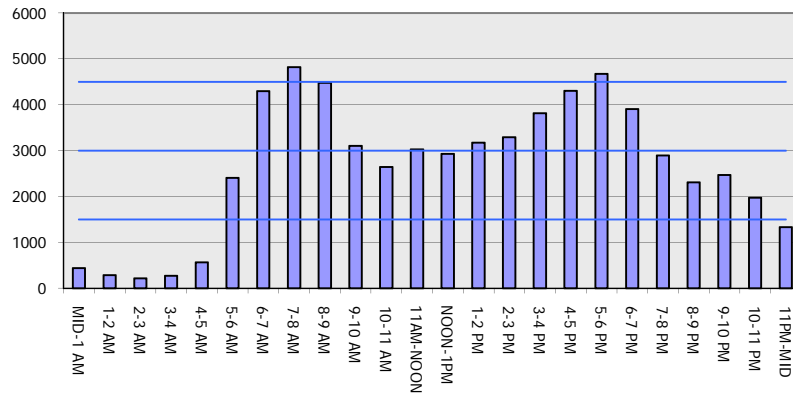
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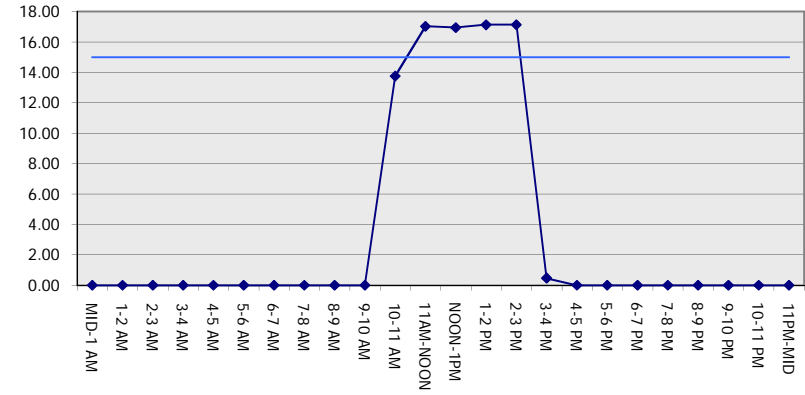
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY EASTBOUND DIRECTION

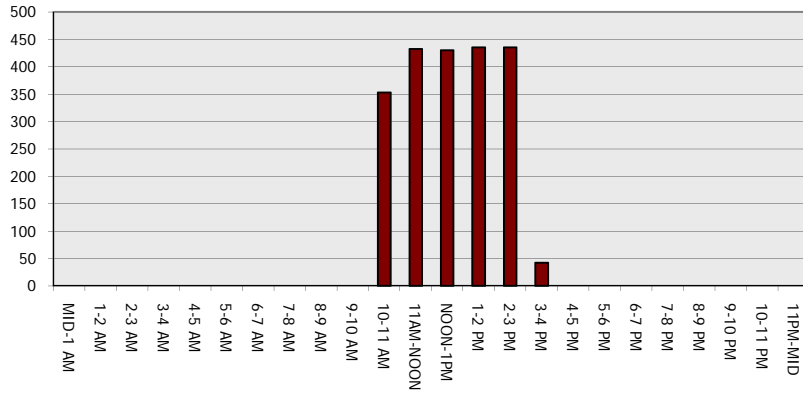
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

