

IH 43: STH 100/BROWN DEER RD TO SILVER SPRING DR (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY SOUTHBOUND 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	400	0.0	1500	400	0	0.46	0	65.6	56.9	43.9
1-2 AM	177	0.0	1500	177	0	0.44	0	66.1	57.6	44.8
2-3 AM	130	0.0	1500	130	0	0.44	0	66.1	57.8	45.0
3-4 AM	126	0.0	1500	126	0	0.43	0	66.1	57.8	45.0
4-5 AM	227	0.0	1500	227	0	0.44	0	66.0	57.4	44.6
5-6 AM	436	0.0	1500	436	0	0.46	0	65.6	56.8	43.8
6-7 AM	712	0.0	1500	712	0	0.49	0	65.1	56.0	42.7
7-8 AM	1306	0.0	1499	1306	0	0.76	0	64.0	51.3	35.8
8-9 AM	1864	0.0	OFF	1864	0	0.00	0	62.9	62.9	62.9
9-10 AM	2161	0.0	OFF	2161	0	0.00	0	62.3	62.3	62.3
10-11 AM	2315	0.0	OFF	2315	0	0.00	0	62.1	62.1	62.1
11AM-NOON	2519	0.0	OFF	2519	0	0.00	0	60.7	60.7	60.7
NOON-1PM	2725	0.0	OFF	2725	0	0.00	0	58.6	58.6	58.6
1-2 PM	2621	0.0	OFF	2621	0	0.00	0	59.7	59.7	59.7
2-3 PM	2470	0.0	OFF	2470	0	0.00	0	61.2	61.2	61.2
3-4 PM	2632	0.0	OFF	2632	0	0.00	0	59.6	59.6	59.6
4-5 PM	2585	0.0	OFF	2585	0	0.00	0	60.1	60.1	60.1
5-6 PM	2599	0.0	OFF	2599	0	0.00	0	59.9	59.9	59.9
6-7 PM	2347	0.0	1499	1972	375	12.27+	320	62.0	13.0	30.8
7-8 PM	1798	0.0	1499	1442	357	15.76+	398	63.0	10.7	30.8
8-9 PM	1378	0.0	1499	1373	5	14.50+	365	63.8	11.4	30.8
9-10 PM	1239	0.0	1499	1239	0	6.35	166	64.1	20.9	32.5
10-11 PM	1040	0.0	1500	1040	0	0.55	0	64.5	54.6	41.5
11PM-MID	773	0.0	1500	773	0	0.50	0	65.0	55.8	42.5

"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	0.0192
MAIN ROUTE WITH WORKS	0.0181
'DIVERSION'	0.0009
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$23,627
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
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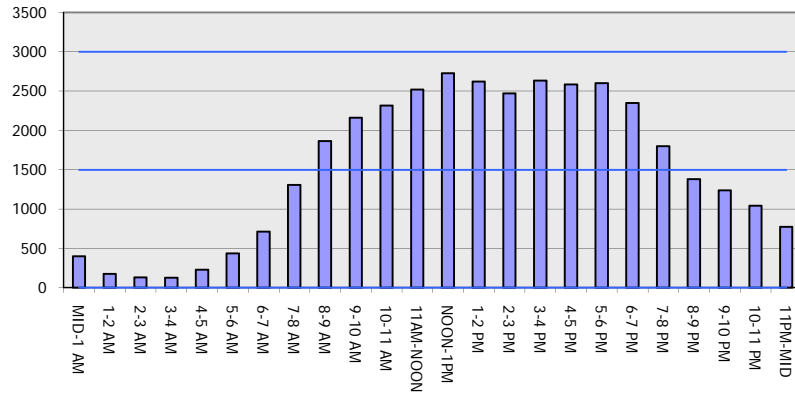
OCTOBER

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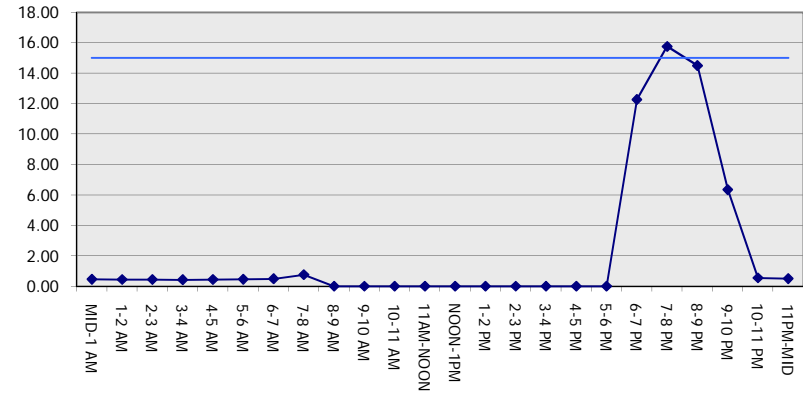
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION

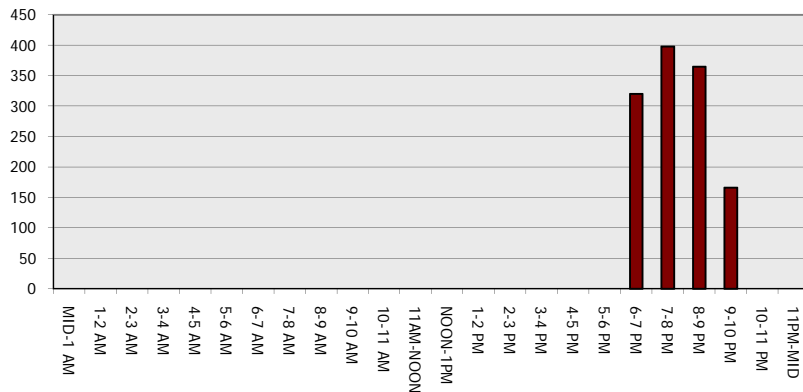
Main Route - Traffic Demand (Vehicles Per Hour)



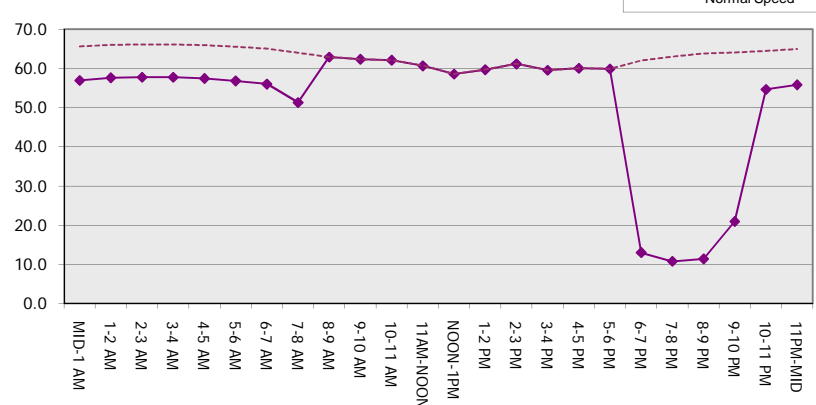
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY NORTHBOUND 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	571	0.0	1500	571	0	0.48	0	65.3	56.4	43.2
1-2 AM	342	0.0	1500	342	0	0.46	0	65.8	57.1	44.1
2-3 AM	292	0.0	1500	292	0	0.45	0	65.8	57.3	44.3
3-4 AM	219	0.0	1500	219	0	0.44	0	66.0	57.4	44.6
4-5 AM	278	0.0	1500	278	0	0.45	0	65.9	57.3	44.4
5-6 AM	420	0.0	1500	420	0	0.46	0	65.6	56.9	43.8
6-7 AM	733	0.0	1500	733	0	0.49	0	65.0	56.0	42.7
7-8 AM	1371	0.0	1499	1371	0	0.92	2	63.8	49.2	34.3
8-9 AM	1926	0.0	OFF	1926	0	0.00	0	62.8	62.8	62.8
9-10 AM	2333	0.0	OFF	2333	0	0.00	0	62.0	62.0	62.0
10-11 AM	2809	0.0	OFF	2809	0	0.00	0	57.7	57.7	57.7
11AM-NOON	2935	0.0	OFF	2935	0	0.00	0	56.4	56.4	56.4
NOON-1PM	3065	0.0	OFF	3065	0	0.00	0	55.1	55.1	55.1
1-2 PM	2977	0.0	OFF	2977	0	0.00	0	56.0	56.0	56.0
2-3 PM	2891	0.0	OFF	2891	0	0.00	0	56.9	56.9	56.9
3-4 PM	2896	0.0	OFF	2896	0	0.00	0	56.8	56.8	56.8
4-5 PM	2666	0.0	OFF	2666	0	0.00	0	59.2	59.2	59.2
5-6 PM	2473	0.0	OFF	2473	0	0.00	0	61.2	61.2	61.2
6-7 PM	2126	0.0	1499	1867	259	10.79+	293	62.4	14.3	30.8
7-8 PM	1612	0.0	1500	1539	73	15.80+	398	63.4	10.7	30.8
8-9 PM	1475	0.0	1499	1469	6	15.71+	396	63.7	10.7	30.8
9-10 PM	1358	0.0	1499	1358	0	12.28	307	63.8	12.9	30.8
10-11 PM	1369	0.0	1500	1369	0	7.50	179	63.8	18.7	30.9
11PM-MID	967	0.0	1500	967	0	0.82	11	64.6	51.0	41.5

"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	0.0211
MAIN ROUTE WITH WORKS	0.0200
'DIVERSION'	0.0004

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$27,377
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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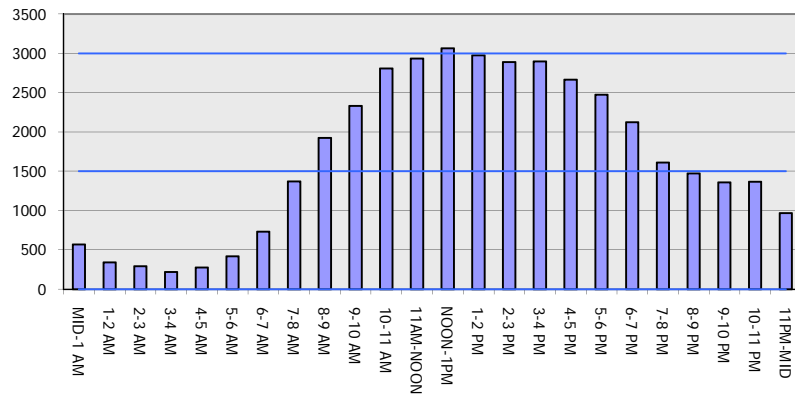
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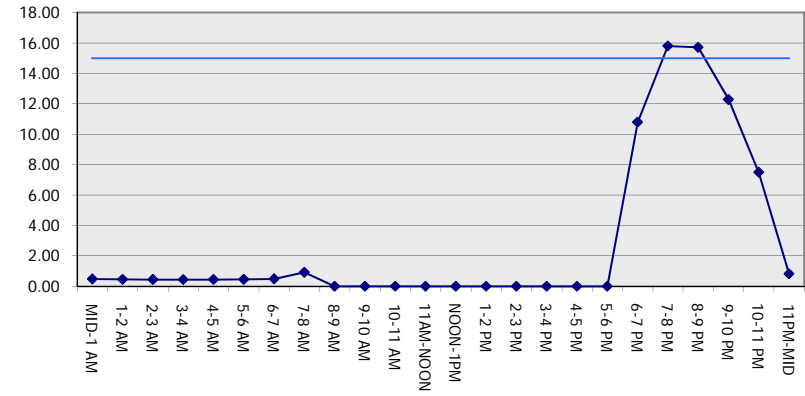
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SATURDAY NORTHBOUND DIRECTION

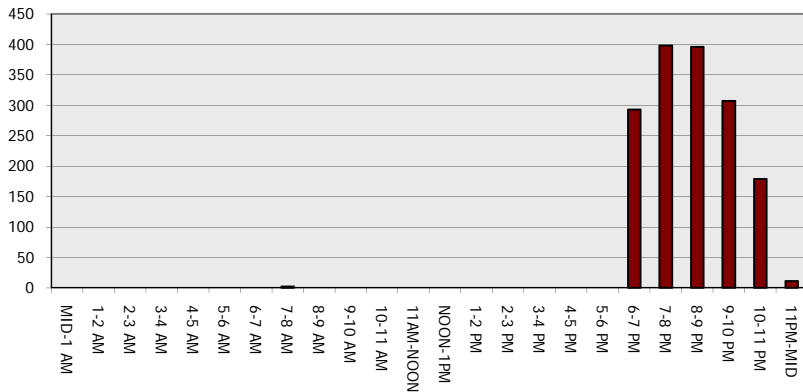
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

