

IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	738	0.0	3000	738	0	0.35	0	69.8	62.2	49.7
1-2 AM	380	0.0	3000	380	0	0.36	0	70.2	62.5	49.7
2-3 AM	272	0.0	3000	272	0	0.36	0	70.2	62.5	49.7
3-4 AM	173	0.0	3000	173	0	0.36	0	70.2	62.5	49.7
4-5 AM	223	0.0	3000	223	0	0.36	0	70.2	62.5	49.7
5-6 AM	369	0.0	3000	369	0	0.36	0	70.2	62.5	49.7
6-7 AM	644	0.0	3000	644	0	0.36	0	69.9	62.3	49.7
7-8 AM	958	0.0	3000	958	0	0.35	0	69.6	62.1	49.7
8-9 AM	1395	0.0	3000	1395	0	0.34	0	69.0	61.8	49.7
9-10 AM	2133	0.0	OFF	2133	0	0.00	0	68.1	68.1	68.1
10-11 AM	2701	0.0	OFF	2701	0	0.00	0	67.4	67.4	67.4
11AM-NOON	3205	0.0	OFF	3205	0	0.00	0	66.8	66.8	66.8
NOON-1PM	3433	0.0	OFF	3433	0	0.00	0	66.4	66.4	66.4
1-2 PM	3433	0.0	OFF	3433	0	0.00	0	66.4	66.4	66.4
2-3 PM	3468	0.0	OFF	3468	0	0.00	0	66.4	66.4	66.4
3-4 PM	3632	0.0	OFF	3632	0	0.00	0	66.1	66.1	66.1
4-5 PM	3659	0.0	OFF	3659	0	0.00	0	65.8	65.8	65.8
5-6 PM	3564	0.0	OFF	3564	0	0.00	0	66.3	66.3	66.3
6-7 PM	3447	0.0	OFF	3447	0	0.00	0	66.4	66.4	66.4
7-8 PM	2571	0.0	3000	2571	0	0.45	0	67.6	58.8	45.1
8-9 PM	1695	0.0	3000	1695	0	0.34	0	68.6	61.6	49.7
9-10 PM	1373	0.0	3000	1373	0	0.34	0	69.1	61.8	49.7
10-11 PM	864	0.0	3000	864	0	0.35	0	69.7	62.2	49.7
11PM-MID	644	0.0	3000	644	0	0.36	0	69.9	62.3	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	0.0243
MAIN ROUTE WITH WORKS	0.0235
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,032
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

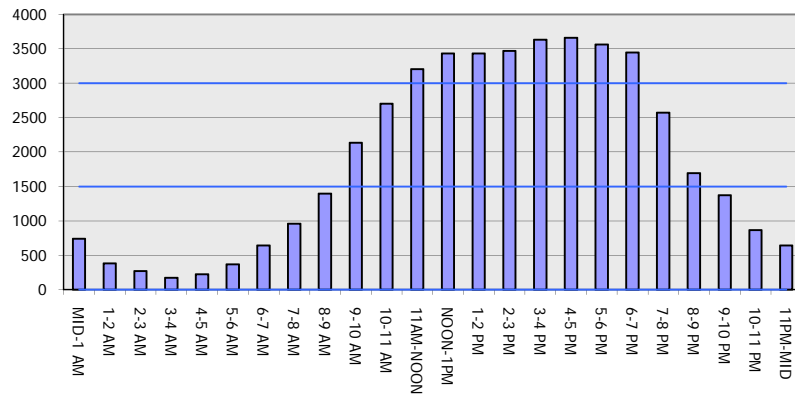
OCTOBER

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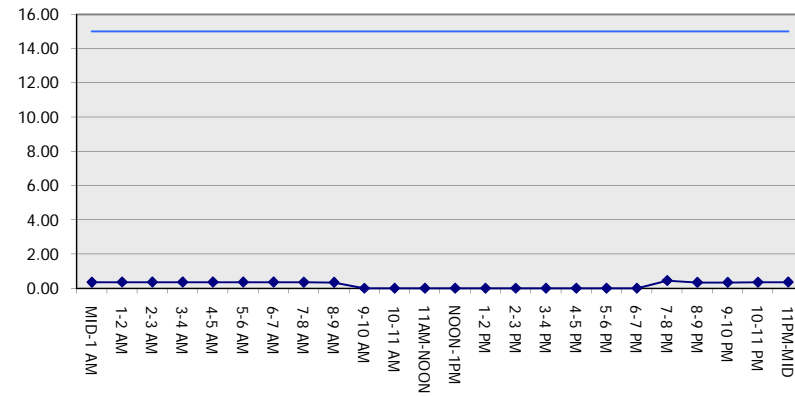
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY SOUTHBOUND DIRECTION

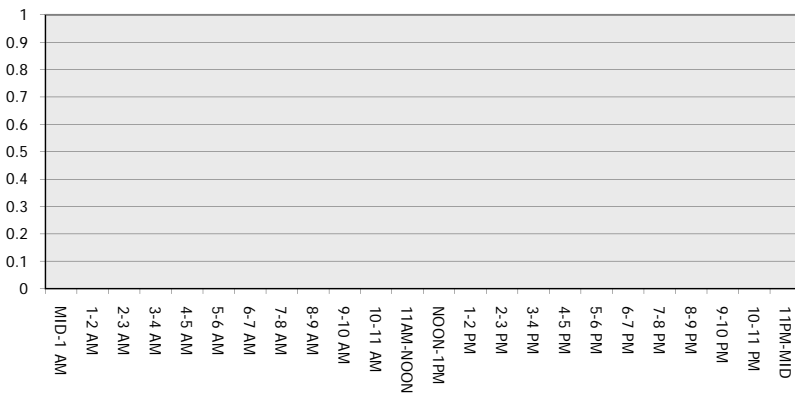
Main Route - Traffic Demand (Vehicles Per Hour)



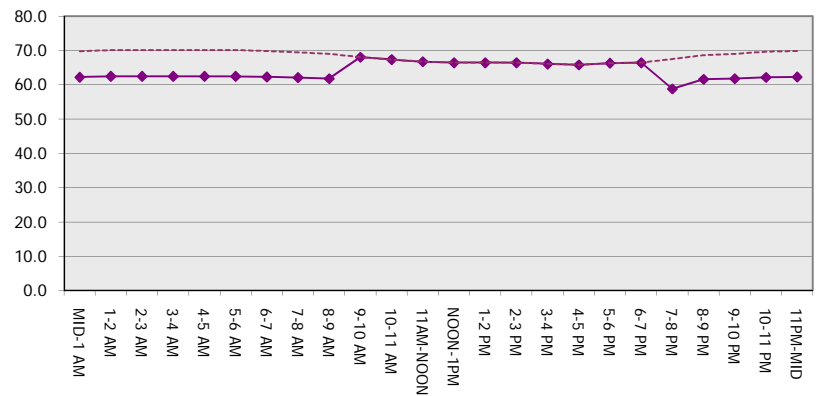
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	1075	0.0	3000	1075	0	0.35	0	69.4	62.0	49.7
1-2 AM	699	0.0	3000	699	0	0.36	0	69.9	62.3	49.7
2-3 AM	766	0.0	3000	766	0	0.35	0	69.8	62.2	49.7
3-4 AM	419	0.0	3000	419	0	0.36	0	70.2	62.5	49.7
4-5 AM	276	0.0	3000	276	0	0.36	0	70.2	62.5	49.7
5-6 AM	411	0.0	3000	411	0	0.36	0	70.2	62.5	49.7
6-7 AM	809	0.0	3000	809	0	0.35	0	69.7	62.2	49.7
7-8 AM	1190	0.0	3000	1190	0	0.35	0	69.2	61.9	49.7
8-9 AM	1652	0.0	3000	1652	0	0.34	0	68.7	61.6	49.7
9-10 AM	2076	0.0	OFF	2076	0	0.00	0	68.1	68.1	68.1
10-11 AM	2448	0.0	OFF	2448	0	0.00	0	67.7	67.7	67.7
11AM-NOON	2823	0.0	OFF	2823	0	0.00	0	67.3	67.3	67.3
NOON-1PM	3037	0.0	OFF	3037	0	0.00	0	66.9	66.9	66.9
1-2 PM	3189	0.0	OFF	3189	0	0.00	0	66.8	66.8	66.8
2-3 PM	3158	0.0	OFF	3158	0	0.00	0	66.8	66.8	66.8
3-4 PM	3231	0.0	OFF	3231	0	0.00	0	66.7	66.7	66.7
4-5 PM	3016	0.0	OFF	3016	0	0.00	0	67.0	67.0	67.0
5-6 PM	2735	0.0	OFF	2735	0	0.00	0	67.3	67.3	67.3
6-7 PM	2503	0.0	OFF	2503	0	0.00	0	67.6	67.6	67.6
7-8 PM	2136	0.0	3000	2136	0	0.33	0	68.1	61.3	49.7
8-9 PM	1632	0.0	3000	1632	0	0.34	0	68.7	61.6	49.7
9-10 PM	1411	0.0	3000	1411	0	0.34	0	69.0	61.8	49.7
10-11 PM	1128	0.0	3000	1128	0	0.35	0	69.3	62.0	49.7
11PM-MID	811	0.0	3000	811	0	0.35	0	69.7	62.2	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	0.0231
MAIN ROUTE WITH WORKS	0.0221
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,130
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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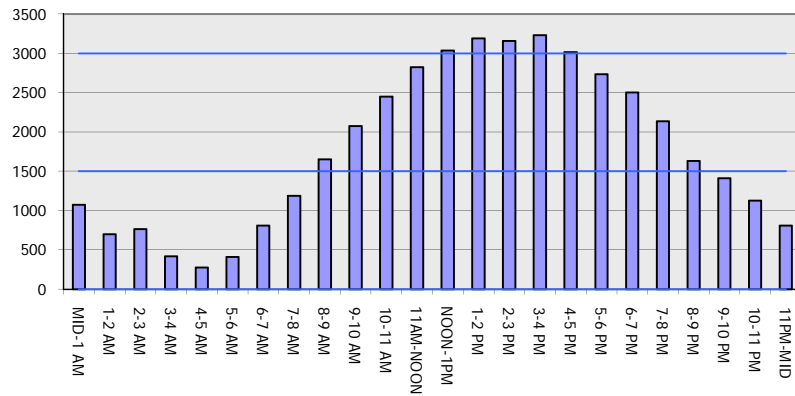
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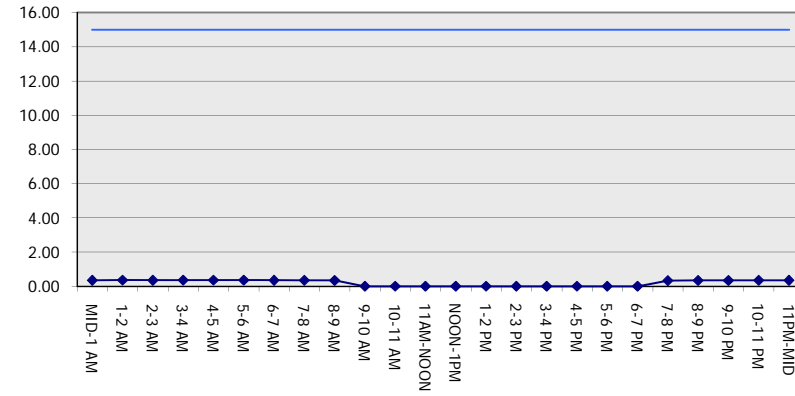
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY NORTHBOUND DIRECTION

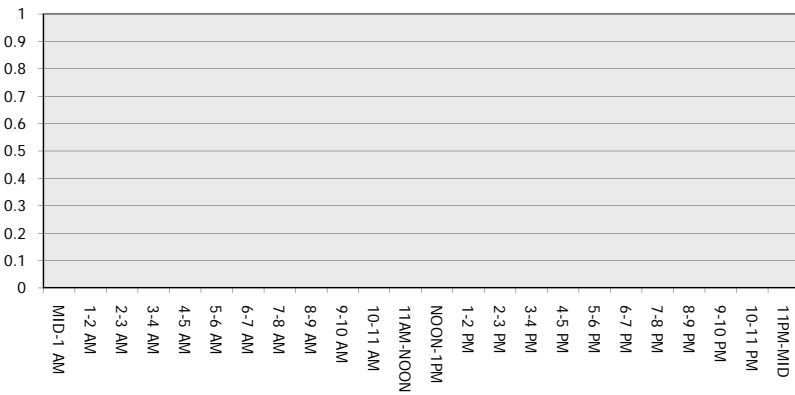
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

