

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

MON-THUR 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	420	0.0	3000	420	0	0.36	0	70.2	62.5	49.7
1-2 AM	291	0.0	3000	291	0	0.36	0	70.2	62.5	49.7
2-3 AM	209	0.0	3000	209	0	0.36	0	70.2	62.5	49.7
3-4 AM	221	0.0	3000	221	0	0.36	0	70.2	62.5	49.7
4-5 AM	519	0.0	3000	519	0	0.36	0	70.1	62.4	49.7
5-6 AM	1571	0.0	OFF	1571	0	0.00	0	68.8	68.8	68.8
6-7 AM	3864	0.0	OFF	3864	0	0.00	0	64.5	64.5	64.5
7-8 AM	5488	0.0	OFF	5488	0	0.00	0	53.3	53.3	53.3
8-9 AM	4758	0.0	OFF	4758	0	0.00	0	58.4	58.4	58.4
9-10 AM	3478	0.0	OFF	3478	0	0.00	0	66.4	66.4	66.4
10-11 AM	3040	0.0	OFF	3040	0	0.00	0	66.9	66.9	66.9
11AM-NOON	3218	0.0	OFF	3218	0	0.00	0	66.8	66.8	66.8
NOON-1PM	3367	0.0	OFF	3367	0	0.00	0	66.6	66.6	66.6
1-2 PM	3431	0.0	OFF	3431	0	0.00	0	66.4	66.4	66.4
2-3 PM	3966	0.0	OFF	3966	0	0.00	0	63.8	63.8	63.8
3-4 PM	4404	0.0	OFF	4404	0	0.00	0	60.8	60.8	60.8
4-5 PM	4220	0.0	OFF	4220	0	0.00	0	62.0	62.0	62.0
5-6 PM	4486	0.0	OFF	4486	0	0.00	0	60.2	60.2	60.2
6-7 PM	3574	0.0	OFF	3574	0	0.00	0	66.3	66.3	66.3
7-8 PM	2409	0.0	3000	2409	0	0.34	0	67.8	60.8	49.1
8-9 PM	1883	0.0	3000	1883	0	0.34	0	68.4	61.5	49.7
9-10 PM	1590	0.0	3000	1590	0	0.34	0	68.7	61.7	49.7
10-11 PM	1128	0.0	3000	1128	0	0.35	0	69.3	62.0	49.7
11PM-MID	744	0.0	3000	744	0	0.35	0	69.8	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	0.0337
MAIN ROUTE WITH WORKS	0.0331
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$656
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

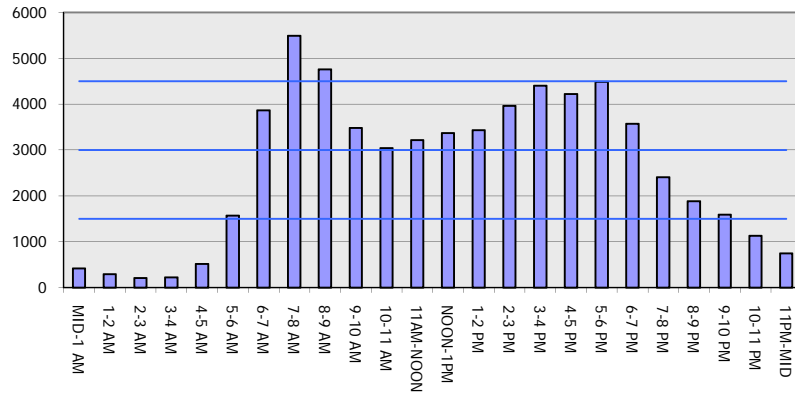
OCTOBER

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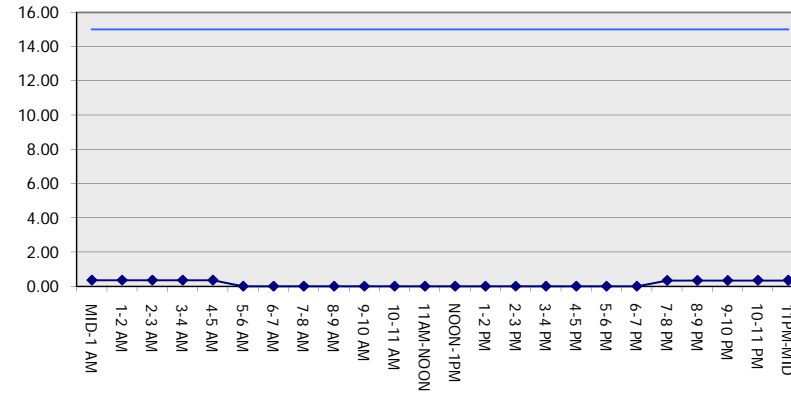
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION

Main Route - Traffic Demand (Vehicles Per Hour)



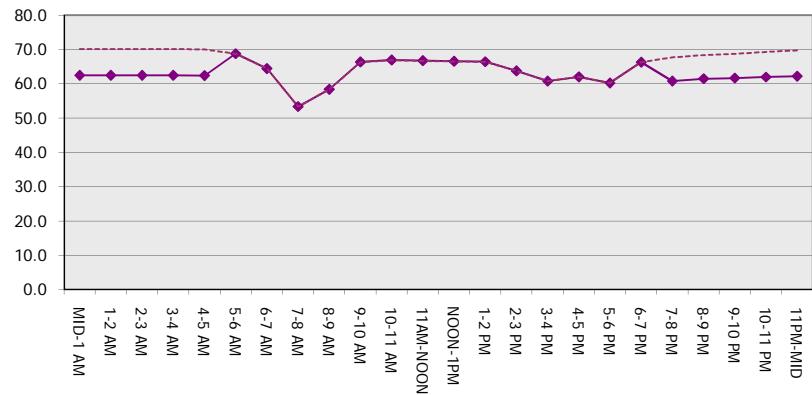
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	516	0.0	3000	516	0	0.36	0	70.1	62.4	49.7
1-2 AM	324	0.0	3000	324	0	0.36	0	70.2	62.5	49.7
2-3 AM	270	0.0	3000	270	0	0.36	0	70.2	62.5	49.7
3-4 AM	297	0.0	3000	297	0	0.36	0	70.2	62.5	49.7
4-5 AM	485	0.0	3000	485	0	0.36	0	70.1	62.4	49.7
5-6 AM	1503	0.0	OFF	1503	0	0.00	0	68.9	68.9	68.9
6-7 AM	3222	0.0	OFF	3222	0	0.00	0	66.8	66.8	66.8
7-8 AM	4476	0.0	OFF	4476	0	0.00	0	60.3	60.3	60.3
8-9 AM	3928	0.0	OFF	3928	0	0.00	0	64.0	64.0	64.0
9-10 AM	3047	0.0	OFF	3047	0	0.00	0	66.9	66.9	66.9
10-11 AM	2843	0.0	OFF	2843	0	0.00	0	67.2	67.2	67.2
11AM-NOON	3062	0.0	OFF	3062	0	0.00	0	66.9	66.9	66.9
NOON-1PM	3243	0.0	OFF	3243	0	0.00	0	66.7	66.7	66.7
1-2 PM	3337	0.0	OFF	3337	0	0.00	0	66.6	66.6	66.6
2-3 PM	3909	0.0	OFF	3909	0	0.00	0	64.1	64.1	64.1
3-4 PM	4636	0.0	OFF	4636	0	0.00	0	59.2	59.2	59.2
4-5 PM	5228	0.0	OFF	5228	0	0.00	0	55.1	55.1	55.1
5-6 PM	5399	0.0	OFF	5399	0	0.00	0	54.0	54.0	54.0
6-7 PM	3878	0.0	OFF	3878	0	0.00	0	64.3	64.3	64.3
7-8 PM	2717	0.0	3000	2717	0	0.54	0	67.4	57.1	42.1
8-9 PM	2251	0.0	3000	2251	0	0.33	0	67.9	61.2	49.7
9-10 PM	2026	0.0	3000	2026	0	0.33	0	68.2	61.4	49.7
10-11 PM	1322	0.0	3000	1322	0	0.35	0	69.1	61.9	49.7
11PM-MID	880	0.0	3000	880	0	0.35	0	69.6	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	0.0340
MAIN ROUTE WITH WORKS	0.0332
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$874
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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OCTOBER

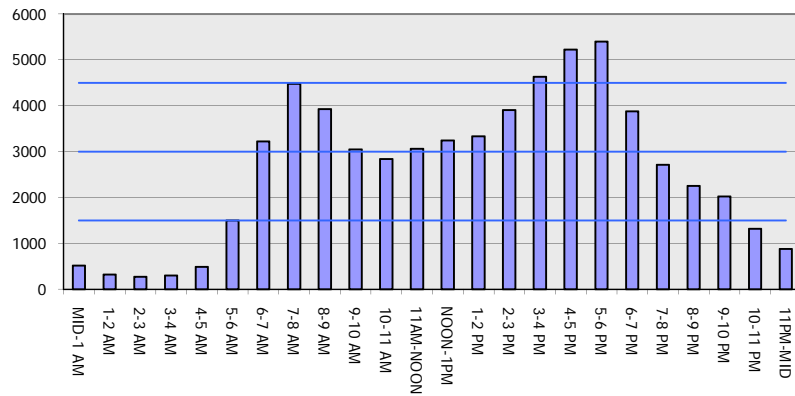
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

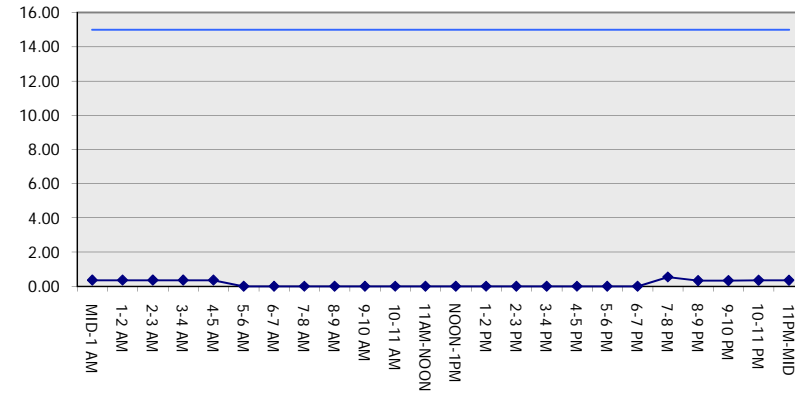
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NORTHBOUND DIRECTION

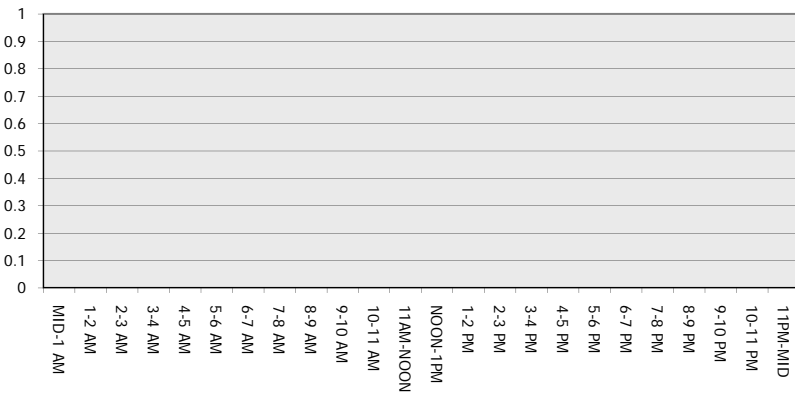
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

