

IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	451	0.0	1500	451	0	0.53	0	70.2	59.4	43.7	
1-2 AM	262	0.0	1500	262	0	0.50	0	70.2	59.8	44.4	
2-3 AM	202	0.0	1500	202	0	0.50	0	70.2	59.9	44.6	
3-4 AM	234	0.0	1500	234	0	0.50	0	70.2	59.9	44.5	
4-5 AM	581	0.0	1500	581	0	0.54	0	70.0	59.1	43.2	
5-6 AM	1517	0.0	OFF	1517	0	0.00	0	68.9	68.9	68.9	
6-7 AM	3693	0.0	OFF	3693	0	0.00	0	65.6	65.6	65.6	
7-8 AM	5438	0.0	OFF	5438	0	0.00	0	53.7	53.7	53.7	
8-9 AM	4759	0.0	OFF	4759	0	0.00	0	58.4	58.4	58.4	
9-10 AM	3602	0.0	OFF	3602	0	0.00	0	66.3	66.3	66.3	
10-11 AM	3255	0.0	OFF	3255	0	0.00	0	66.7	66.7	66.7	
11AM-NOON	3465	0.0	OFF	3465	0	0.00	0	66.4	66.4	66.4	
NOON-1PM	3496	0.0	OFF	3496	0	0.00	0	66.4	66.4	66.4	
1-2 PM	3370	0.0	OFF	3370	0	0.00	0	66.6	66.6	66.6	
2-3 PM	4054	0.0	OFF	4054	0	0.00	0	63.2	63.2	63.2	
3-4 PM	4304	0.0	OFF	4304	0	0.00	0	61.5	61.5	61.5	
4-5 PM	4454	0.0	OFF	4454	0	0.00	0	60.4	60.4	60.4	
5-6 PM	4530	0.0	OFF	4530	0	0.00	0	59.9	59.9	59.9	
6-7 PM	3477	0.0	OFF	3477	0	0.00	0	66.4	66.4	66.4	
7-8 PM	2376	0.0	1499	1878	497	12.90+	320	67.8	12.8	32.4	
8-9 PM	2068	0.0	1499	1500	568	16.35+	399	68.2	10.6	30.8	
9-10 PM	1781	0.0	1500	1500	281	16.36+	400	68.5	10.6	30.8	
10-11 PM	1323	0.0	1500	1323	0	13.00	318	69.1	12.8	30.9	
11PM-MID	868	0.0	1500	868	0	1.40	38	69.7	47.2	41.7	

"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	0.0344
MAIN ROUTE WITH WORKS	0.0331
'DIVERSION'	0.0017
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$25,843
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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NIGHTTIME 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)

AUGUST

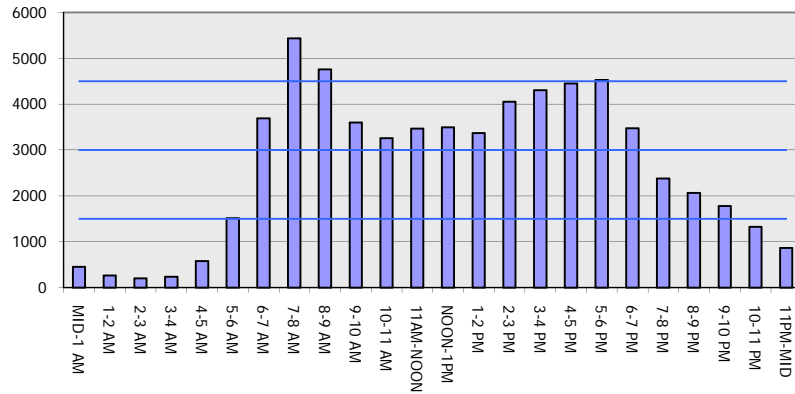
Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

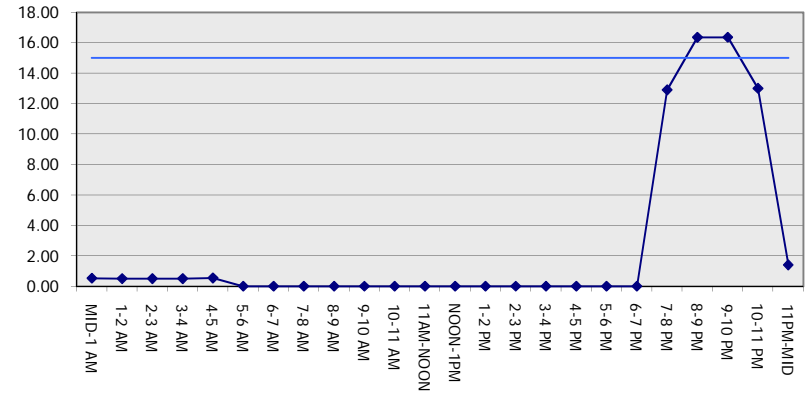
MON-THUR

SOUTHBOUND DIRECTION

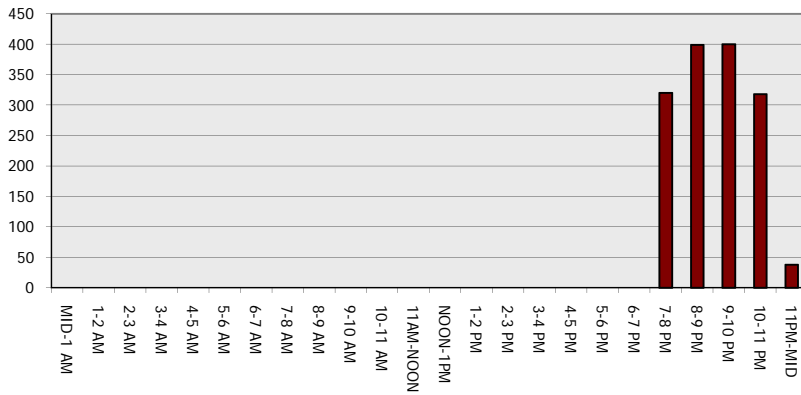
Main Route - Traffic Demand (Vehicles Per Hour)



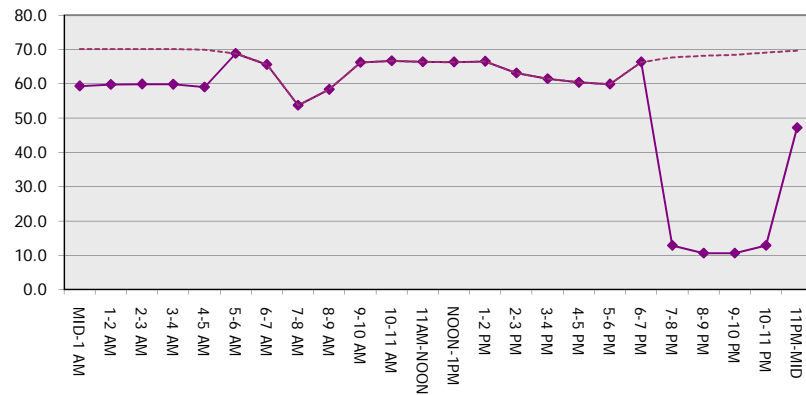
Main Route Average Delay Per Vehicle (Minutes)



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	736	0.0	1500	736	0	0.56	0	69.8	58.6	42.6	
1-2 AM	430	0.0	1500	430	0	0.53	0	70.2	59.4	43.8	
2-3 AM	324	0.0	1500	324	0	0.51	0	70.2	59.7	44.2	
3-4 AM	329	0.0	1500	329	0	0.51	0	70.2	59.6	44.2	
4-5 AM	505	0.0	1500	505	0	0.53	0	70.1	59.2	43.5	
5-6 AM	1591	0.0	OFF	1591	0	0.00	0	68.7	68.7	68.7	
6-7 AM	3390	0.0	OFF	3390	0	0.00	0	66.5	66.5	66.5	
7-8 AM	4562	0.0	OFF	4562	0	0.00	0	59.7	59.7	59.7	
8-9 AM	4037	0.0	OFF	4037	0	0.00	0	63.3	63.3	63.3	
9-10 AM	3158	0.0	OFF	3158	0	0.00	0	66.8	66.8	66.8	
10-11 AM	3063	0.0	OFF	3063	0	0.00	0	66.9	66.9	66.9	
11AM-NOON	3220	0.0	OFF	3220	0	0.00	0	66.8	66.8	66.8	
NOON-1PM	3377	0.0	OFF	3377	0	0.00	0	66.5	66.5	66.5	
1-2 PM	3448	0.0	OFF	3448	0	0.00	0	66.4	66.4	66.4	
2-3 PM	3977	0.0	OFF	3977	0	0.00	0	63.7	63.7	63.7	
3-4 PM	4593	0.0	OFF	4593	0	0.00	0	59.5	59.5	59.5	
4-5 PM	5343	0.0	OFF	5343	0	0.00	0	54.3	54.3	54.3	
5-6 PM	5489	0.0	OFF	5489	0	0.00	0	53.3	53.3	53.3	
6-7 PM	3605	0.0	OFF	3605	0	0.00	0	66.2	66.2	66.2	
7-8 PM	2566	0.0	1499	1765	801	13.51+	338	67.6	12.4	35.1	
8-9 PM	2287	0.0	1499	1621	666	15.88+	389	67.9	10.8	30.8	
9-10 PM	2147	0.0	1500	1500	647	16.34+	400	68.1	10.6	30.8	
10-11 PM	1625	0.0	1500	1499	127	16.09+	392	68.7	10.7	30.8	
11PM-MID	1121	0.0	1499	1121	0	7.80	223	69.4	19.0	34.5	

"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	0.0351
MAIN ROUTE WITH WORKS	0.0333
'DIVERSION'	0.0028

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$32,544
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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AUGUST

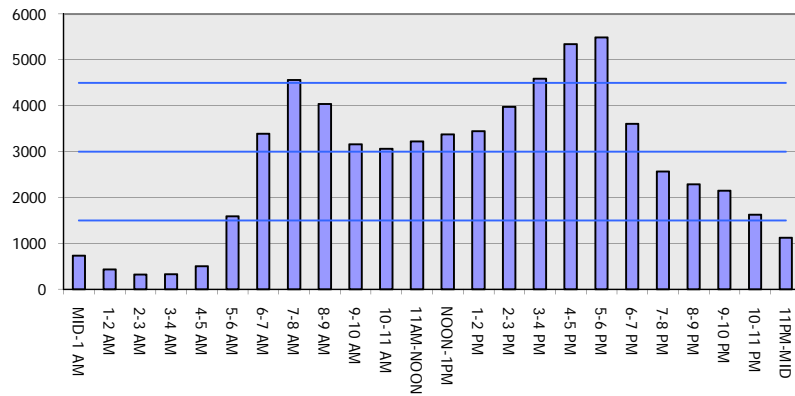
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

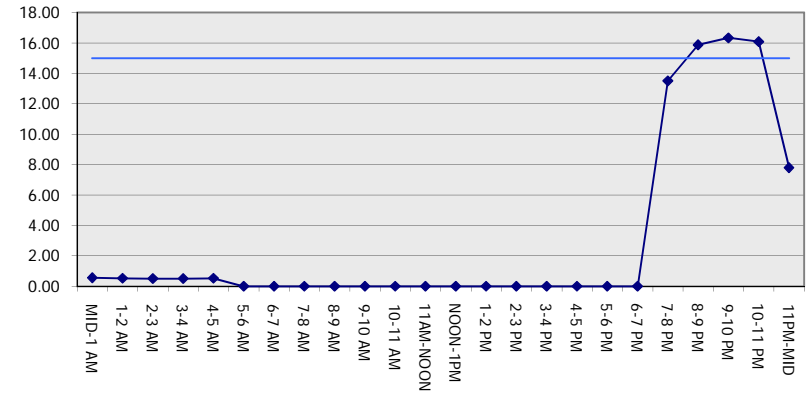
MON-THUR

NORTHBOUND DIRECTION

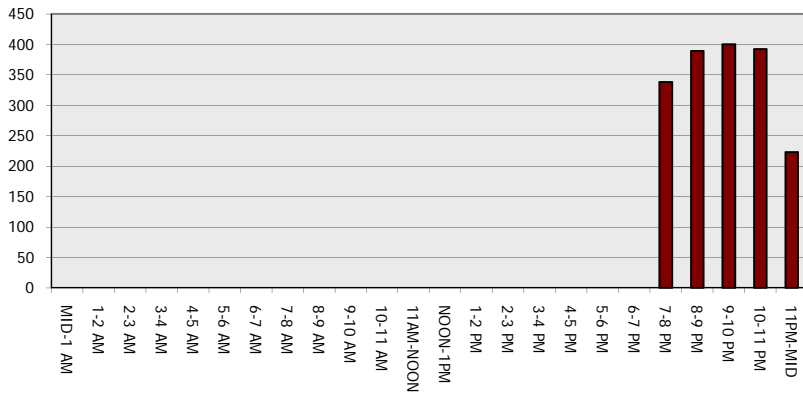
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

