

IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY) OFF-PEAK DAY 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	OFF	451	0	0.00	0	70.2	70.2	70.2
1-2 AM	262	0.0	OFF	262	0	0.00	0	70.2	70.2	70.2
2-3 AM	202	0.0	OFF	202	0	0.00	0	70.2	70.2	70.2
3-4 AM	234	0.0	OFF	234	0	0.00	0	70.2	70.2	70.2
4-5 AM	581	0.0	OFF	581	0	0.00	0	70.0	70.0	70.0
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	2999	3255	0	2.89	131	66.7	34.3	37.3
11AM-NOON	3465	0.0	3000	3465	0	9.01	479	66.4	17.0	37.3
NOON-1PM	3496	0.0	2999	3114	382	15.64+	823	66.4	12.2	37.3
1-2 PM	3370	0.0	3000	3001	370	15.89+	837	66.6	12.2	37.3
2-3 PM	4054	0.0	2999	3006	1047	15.77+	840	63.2	12.1	37.3
3-4 PM	4304	0.0	OFF	4304	0	2.43	208	61.5	35.5	35.5
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	OFF	2376	0	0.00	0	67.8	67.8	67.8
8-9 PM	2068	0.0	OFF	2068	0	0.00	0	68.2	68.2	68.2
9-10 PM	1781	0.0	OFF	1781	0	0.00	0	68.5	68.5	68.5
10-11 PM	1323	0.0	OFF	1323	0	0.00	0	69.1	69.1	69.1
11PM-MID	868	0.0	OFF	868	0	0.00	0	69.7	69.7	69.7

"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	0.0
(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	0
(VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

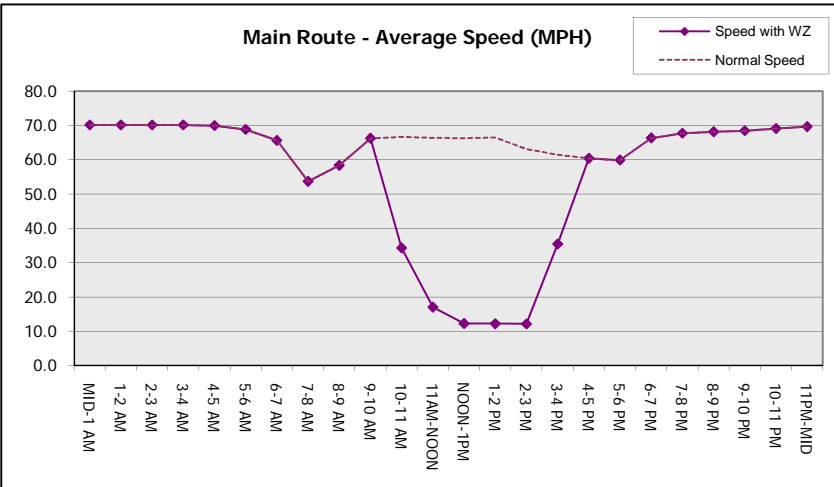
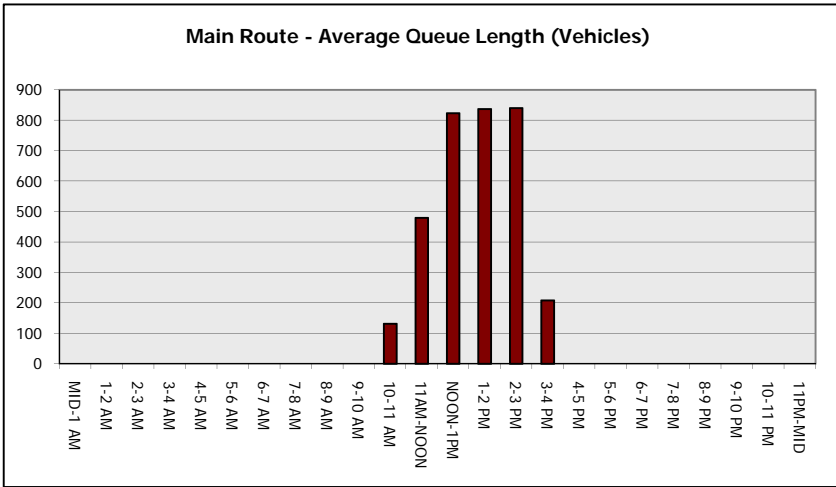
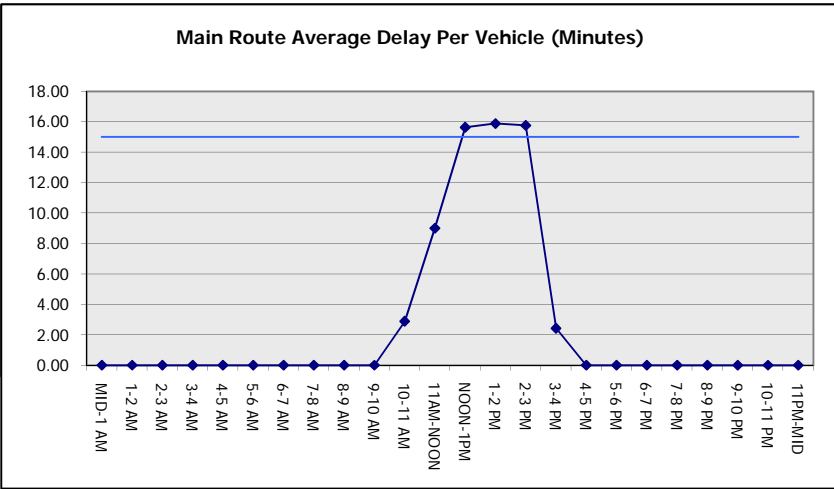
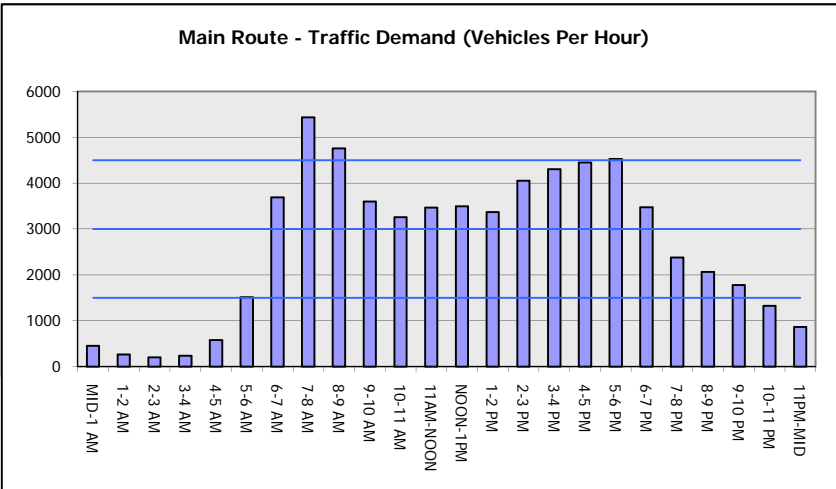
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0344
MAIN ROUTE WITH WORKS	0.0324
'DIVERSION'	0.0023
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$44,814
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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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	OFF	736	0	0.00	0	69.8	69.8	69.8
1-2 AM	430	0.0	OFF	430	0	0.00	0	70.2	70.2	70.2
2-3 AM	324	0.0	OFF	324	0	0.00	0	70.2	70.2	70.2
3-4 AM	329	0.0	OFF	329	0	0.00	0	70.2	70.2	70.2
4-5 AM	505	0.0	OFF	505	0	0.00	0	70.1	70.1	70.1
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	2999	3063	0	1.25	29	66.9	47.4	37.3
11AM-NOON	3220	0.0	3000	3220	0	3.53	163	66.8	30.9	37.3
NOON-1PM	3377	0.0	3000	3377	0	8.86	465	66.5	17.1	37.3
1-2 PM	3448	0.0	2999	3186	263	15.11+	795	66.4	12.4	37.3
2-3 PM	3977	0.0	2999	2995	981	15.79+	839	63.7	12.1	37.3
3-4 PM	4593	0.0	OFF	4593	0	2.89	251	59.5	32.3	32.3
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	OFF	2566	0	0.00	0	67.6	67.6	67.6
8-9 PM	2287	0.0	OFF	2287	0	0.00	0	67.9	67.9	67.9
9-10 PM	2147	0.0	OFF	2147	0	0.00	0	68.1	68.1	68.1
10-11 PM	1625	0.0	OFF	1625	0	0.00	0	68.7	68.7	68.7
11PM-MID	1121	0.0	OFF	1121	0	0.00	0	69.4	69.4	69.4

"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	0.0334
'DIVERSION'	0.0016

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$34,786
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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AUGUST

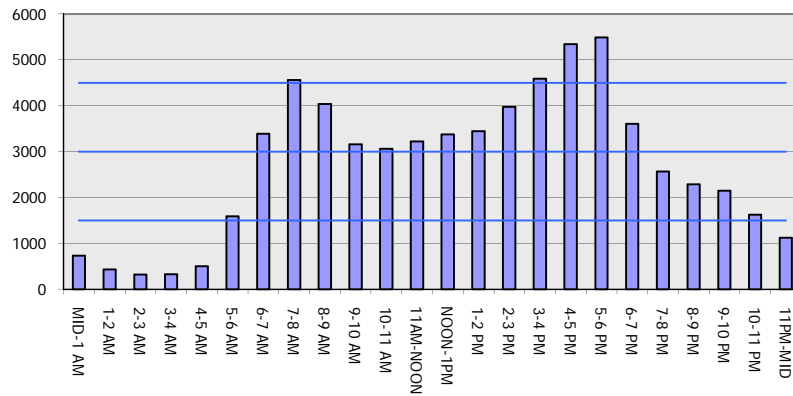
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

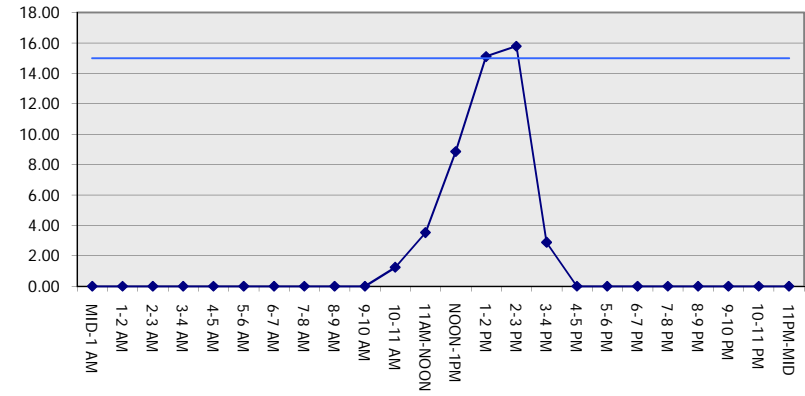
MON-THUR

NORTHBOUND DIRECTION

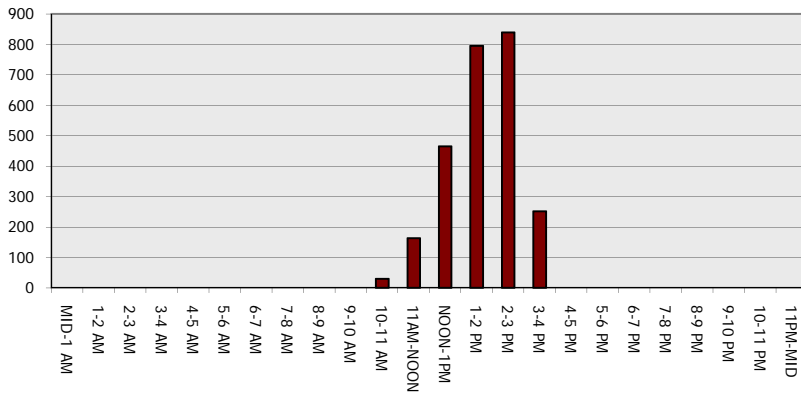
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

