

IH 43: STH 100 TO SILVER SPRING DR (MILWAUKEE COUNTY) OFF-PEAK DAY 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	294	0.0	OFF	294	0	0.00	0	65.8	65.8	65.8
1-2 AM	231	0.0	OFF	231	0	0.00	0	66.0	66.0	66.0
2-3 AM	148	0.0	OFF	148	0	0.00	0	66.1	66.1	66.1
3-4 AM	168	0.0	OFF	168	0	0.00	0	66.1	66.1	66.1
4-5 AM	391	0.0	OFF	391	0	0.00	0	65.6	65.6	65.6
5-6 AM	1255	0.0	OFF	1255	0	0.00	0	64.0	64.0	64.0
6-7 AM	3021	0.0	OFF	3021	0	0.00	0	55.6	55.6	55.6
7-8 AM	4149	0.0	OFF	4149	0	0.00	0	44.0	44.0	44.0
8-9 AM	3569	0.0	OFF	3569	0	0.00	0	49.9	49.9	49.9
9-10 AM	2585	0.0	OFF	2585	0	0.00	0	60.1	60.1	60.1
10-11 AM	2306	0.0	1499	1913	393	11.44+	305	62.1	13.7	30.8
11AM-NOON	2427	0.0	1499	1500	927	15.90+	404	61.7	10.7	30.8
NOON-1PM	2488	0.0	1500	1500	988	15.87+	404	61.0	10.7	30.8
1-2 PM	2429	0.0	1500	1500	929	15.90+	404	61.6	10.7	30.8
2-3 PM	2685	0.0	1499	1499	1186	15.77+	404	59.0	10.6	30.8
3-4 PM	2999	0.0	OFF	2999	0	1.55	84	55.8	38.8	38.8
4-5 PM	2933	0.0	OFF	2933	0	0.00	0	56.4	56.4	56.4
5-6 PM	3220	0.0	OFF	3220	0	0.00	0	53.5	53.5	53.5
6-7 PM	2411	0.0	OFF	2411	0	0.00	0	61.8	61.8	61.8
7-8 PM	1602	0.0	OFF	1602	0	0.00	0	63.4	63.4	63.4
8-9 PM	1230	0.0	OFF	1230	0	0.00	0	64.1	64.1	64.1
9-10 PM	1009	0.0	OFF	1009	0	0.00	0	64.5	64.5	64.5
10-11 PM	720	0.0	OFF	720	0	0.00	0	65.0	65.0	65.0
11PM-MID	453	0.0	OFF	453	0	0.00	0	65.5	65.5	65.5

"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	0.0235
MAIN ROUTE WITH WORKS	0.0206
'DIVERSION'	0.0054
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$40,343
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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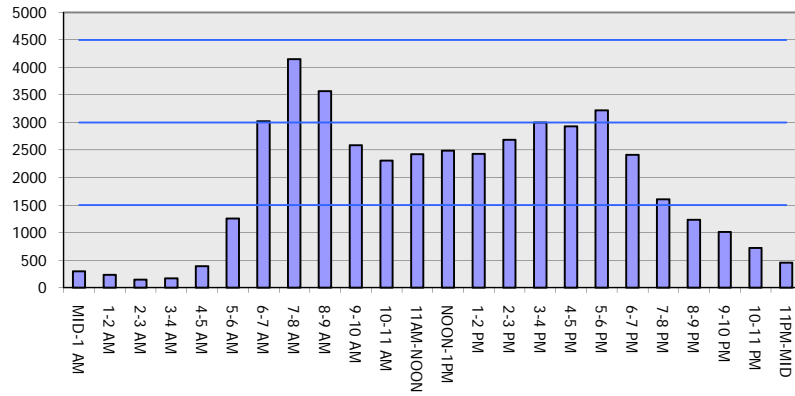
OCTOBER

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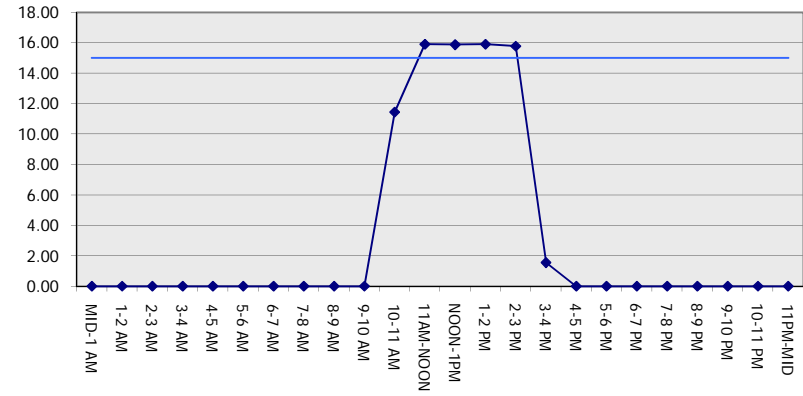
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION

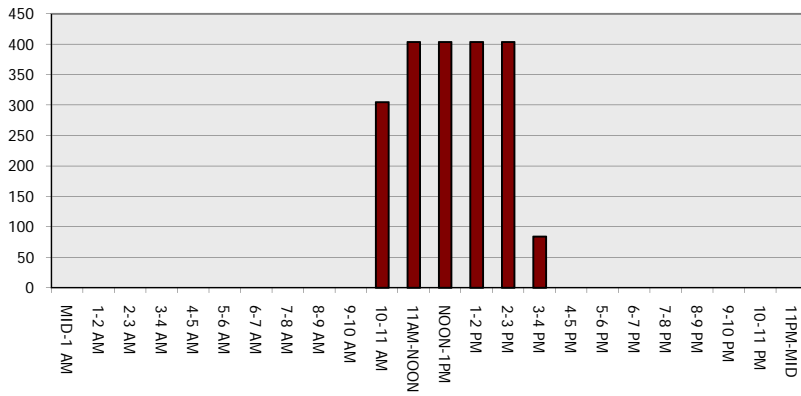
Main Route - Traffic Demand (Vehicles Per Hour)



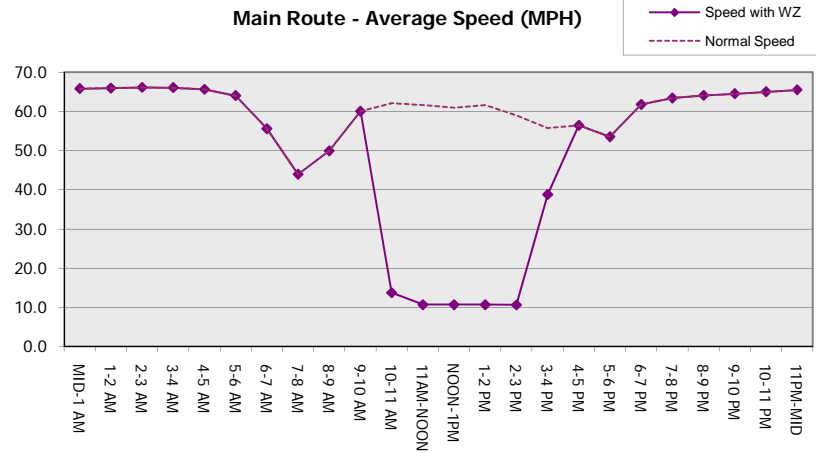
Main Route Average Delay Per Vehicle (Minutes)



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	294	0.0	OFF	294	0	0.00	0	65.8	65.8	65.8
1-2 AM	173	0.0	OFF	173	0	0.00	0	66.1	66.1	66.1
2-3 AM	156	0.0	OFF	156	0	0.00	0	66.1	66.1	66.1
3-4 AM	164	0.0	OFF	164	0	0.00	0	66.1	66.1	66.1
4-5 AM	275	0.0	OFF	275	0	0.00	0	65.9	65.9	65.9
5-6 AM	784	0.0	OFF	784	0	0.00	0	64.9	64.9	64.9
6-7 AM	1773	0.0	OFF	1773	0	0.00	0	63.1	63.1	63.1
7-8 AM	2746	0.0	OFF	2746	0	0.00	0	58.4	58.4	58.4
8-9 AM	2683	0.0	OFF	2683	0	0.00	0	59.0	59.0	59.0
9-10 AM	2184	0.0	OFF	2184	0	0.00	0	62.3	62.3	62.3
10-11 AM	2087	0.0	1499	1905	181	9.33+	262	62.5	16.0	30.8
11AM-NOON	2271	0.0	1500	1500	771	15.93+	404	62.2	10.7	30.8
NOON-1PM	2403	0.0	1500	1500	903	15.92+	404	61.9	10.7	30.8
1-2 PM	2445	0.0	1499	1500	945	15.89+	404	61.5	10.7	30.8
2-3 PM	2900	0.0	1499	1500	1400	15.67+	405	56.8	10.6	30.8
3-4 PM	3579	0.0	OFF	3579	0	3.29	195	49.8	27.3	27.3
4-5 PM	3874	0.0	OFF	3874	0	0.00	0	46.8	46.8	46.8
5-6 PM	4071	0.0	OFF	4071	0	0.00	0	44.8	44.8	44.8
6-7 PM	3027	0.0	OFF	3027	0	0.00	0	55.5	55.5	55.5
7-8 PM	2012	0.0	OFF	2012	0	0.00	0	62.7	62.7	62.7
8-9 PM	1679	0.0	OFF	1679	0	0.00	0	63.3	63.3	63.3
9-10 PM	1398	0.0	OFF	1398	0	0.00	0	63.8	63.8	63.8
10-11 PM	854	0.0	OFF	854	0	0.00	0	64.8	64.8	64.8
11PM-MID	526	0.0	OFF	526	0	0.00	0	65.4	65.4	65.4

"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	0.0233
MAIN ROUTE WITH WORKS	0.0206
'DIVERSION'	0.0051

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$40,324
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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MON-THUR NORTHBOUND DIRECTION

