

<b>IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	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	1500	738	0	0.56	0	69.8	58.6	42.6	
1-2 AM	380	0.0	1500	380	0	0.52	0	70.2	59.6	44.0	
2-3 AM	272	0.0	1500	272	0	0.51	0	70.2	59.7	44.4	
3-4 AM	173	0.0	1500	173	0	0.49	0	70.2	60.0	44.8	
4-5 AM	223	0.0	1500	223	0	0.50	0	70.2	59.9	44.6	
5-6 AM	369	0.0	1500	369	0	0.52	0	70.2	59.6	44.0	
6-7 AM	644	0.0	1500	644	0	0.55	0	69.9	58.9	43.0	
7-8 AM	958	0.0	1499	958	0	0.58	0	69.6	58.0	41.9	
8-9 AM	1395	0.0	1499	1395	0	1.10	5	69.0	50.3	33.9	
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	1499	1714	857	13.74+	346	67.6	12.2	35.5	
8-9 PM	1695	0.0	1499	1687	8	14.11+	348	68.6	11.9	30.8	
9-10 PM	1373	0.0	1499	1373	0	14.88+	363	69.1	11.4	30.8	
10-11 PM	864	0.0	1499	864	0	1.97	69	69.7	41.6	41.0	
11PM-MID	644	0.0	1500	644	0	0.55	0	69.9	58.9	43.0	

"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	0.0243
MAIN ROUTE WITH WORKS	0.0231
'DIVERSION'	0.0011
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$22,529
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

**IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

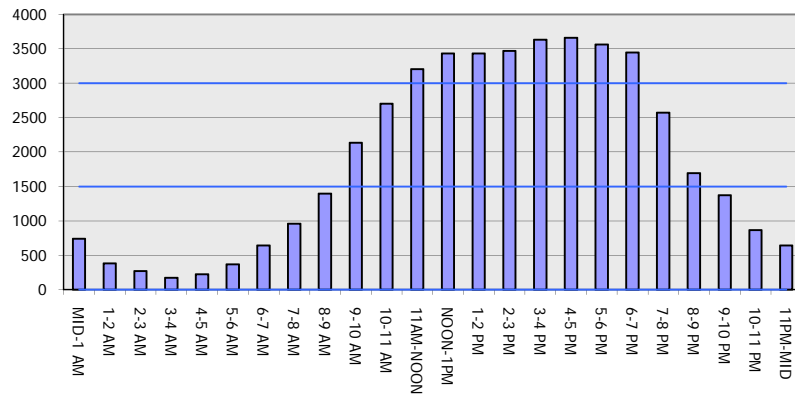
**OCTOBER**

Analyzed for 2009  
 Construction Season

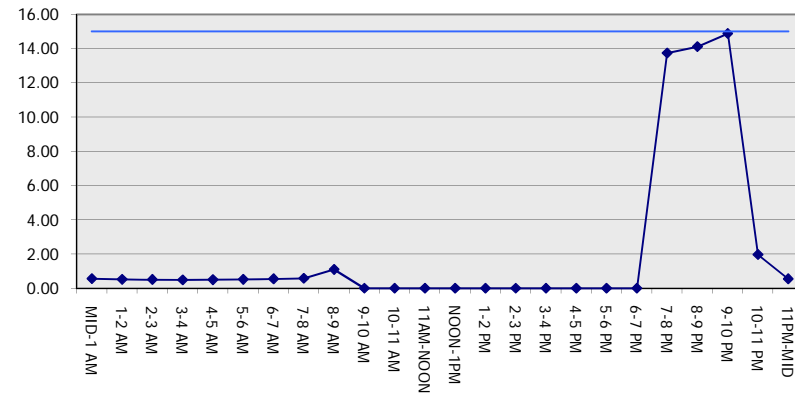
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY SOUTHBOUND DIRECTION**

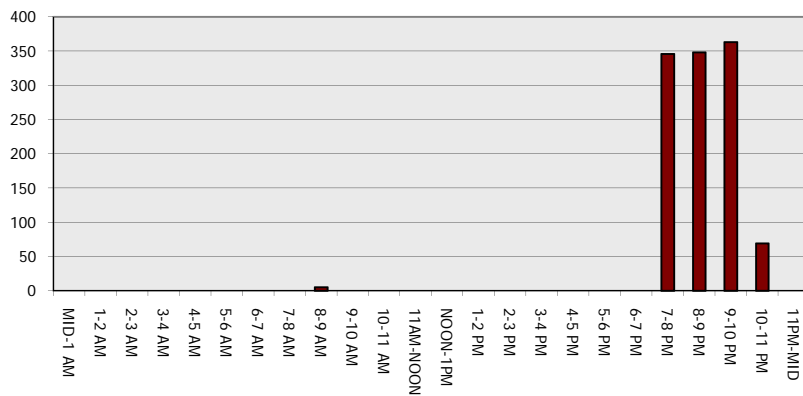
**Main Route - Traffic Demand (Vehicles Per Hour)**



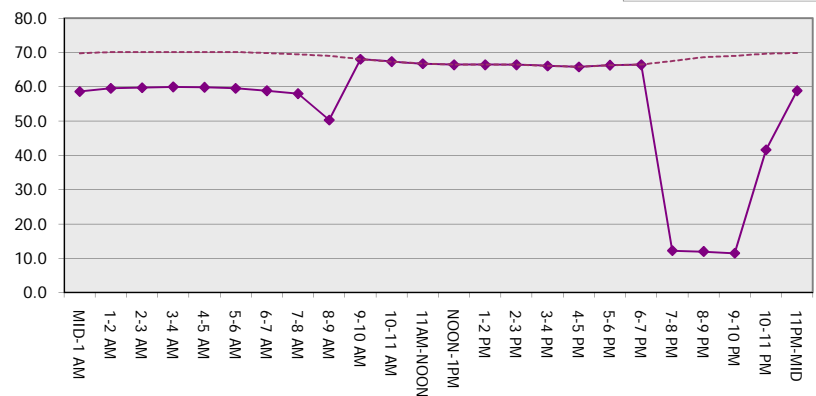
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



<b>IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**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	1500	1075	0	0.59	0	69.4	57.7	41.4
1-2 AM	699	0.0	1500	699	0	0.55	0	69.9	58.7	42.8
2-3 AM	766	0.0	1500	766	0	0.56	0	69.8	58.5	42.5
3-4 AM	419	0.0	1500	419	0	0.52	0	70.2	59.4	43.8
4-5 AM	276	0.0	1500	276	0	0.51	0	70.2	59.7	44.4
5-6 AM	411	0.0	1500	411	0	0.52	0	70.2	59.5	43.8
6-7 AM	809	0.0	1500	809	0	0.57	0	69.7	58.4	42.4
7-8 AM	1190	0.0	1499	1190	0	0.71	0	69.2	55.8	38.5
8-9 AM	1652	0.0	1499	1652	0	2.57	48	68.7	36.8	30.8
9-10 AM	2076	0.0	OFF	2076	0	0.04	2	68.1	67.3	67.3
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	1499	1872	264	11.18+	293	68.1	14.4	30.8
8-9 PM	1632	0.0	1500	1521	111	16.03+	391	68.7	10.7	30.8
9-10 PM	1411	0.0	1499	1411	0	14.96+	364	69.0	11.4	30.8
10-11 PM	1128	0.0	1499	1128	0	4.34	142	69.3	28.0	35.7
11PM-MID	811	0.0	1500	811	0	0.57	0	69.7	58.4	42.4

"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	0.0231
MAIN ROUTE WITH WORKS	0.0219
'DIVERSION'	0.0005

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$22,225
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding User-Specified Maximum

**IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**OCTOBER**

Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY NORTHBOUND DIRECTION**

