

IH 43: STH 100/BROWN DEER RD TO SILVER SPRING DR (MILWAUKEE COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	332	0.0	1500	332	0	0.45	0	65.8	57.1	44.2	
1-2 AM	191	0.0	1500	191	0	0.44	0	66.0	57.6	44.7	
2-3 AM	160	0.0	1500	160	0	0.44	0	66.1	57.6	44.8	
3-4 AM	177	0.0	1500	177	0	0.44	0	66.1	57.6	44.8	
4-5 AM	415	0.0	1500	415	0	0.46	0	65.6	56.9	43.8	
5-6 AM	1143	0.0	OFF	1143	0	0.00	0	64.3	64.3	64.3	
6-7 AM	2629	0.0	OFF	2629	0	0.00	0	59.6	59.6	59.6	
7-8 AM	3485	0.0	OFF	3485	0	0.00	0	50.8	50.8	50.8	
8-9 AM	3327	0.0	OFF	3327	0	0.00	0	52.4	52.4	52.4	
9-10 AM	2691	0.0	OFF	2691	0	0.00	0	58.9	58.9	58.9	
10-11 AM	2539	0.0	OFF	2539	0	0.00	0	60.5	60.5	60.5	
11AM-NOON	2695	0.0	OFF	2695	0	0.00	0	58.9	58.9	58.9	
NOON-1PM	2839	0.0	OFF	2839	0	0.00	0	57.4	57.4	57.4	
1-2 PM	2840	0.0	OFF	2840	0	0.00	0	57.4	57.4	57.4	
2-3 PM	3035	0.0	OFF	3035	0	0.00	0	55.4	55.4	55.4	
3-4 PM	3279	0.0	OFF	3279	0	0.00	0	52.9	52.9	52.9	
4-5 PM	3456	0.0	OFF	3456	0	0.00	0	51.1	51.1	51.1	
5-6 PM	3449	0.0	OFF	3449	0	0.00	0	51.2	51.2	51.2	
6-7 PM	2721	0.0	OFF	2721	0	0.00	0	58.6	58.6	58.6	
7-8 PM	1893	0.0	1499	1893	0	8.68	235	62.8	16.7	30.8	
8-9 PM	1471	0.0	1499	1467	4	15.54+	391	63.7	10.8	30.8	
9-10 PM	1389	0.0	1500	1389	0	12.60	314	63.8	12.6	30.8	
10-11 PM	1137	0.0	1499	1137	0	3.00	100	64.3	32.5	36.6	
11PM-MID	801	0.0	1500	801	0	0.50	0	64.9	55.8	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	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

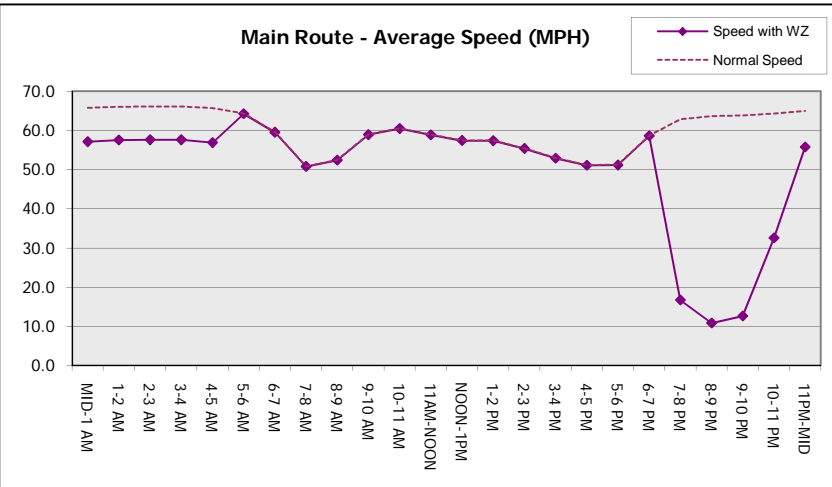
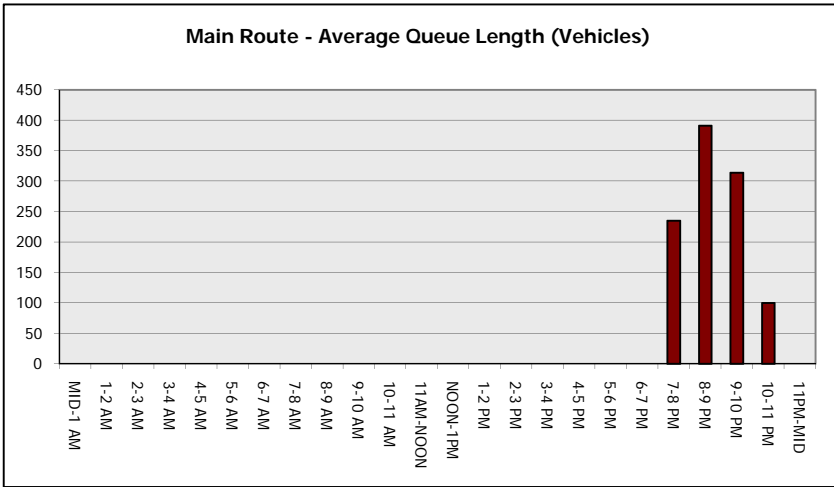
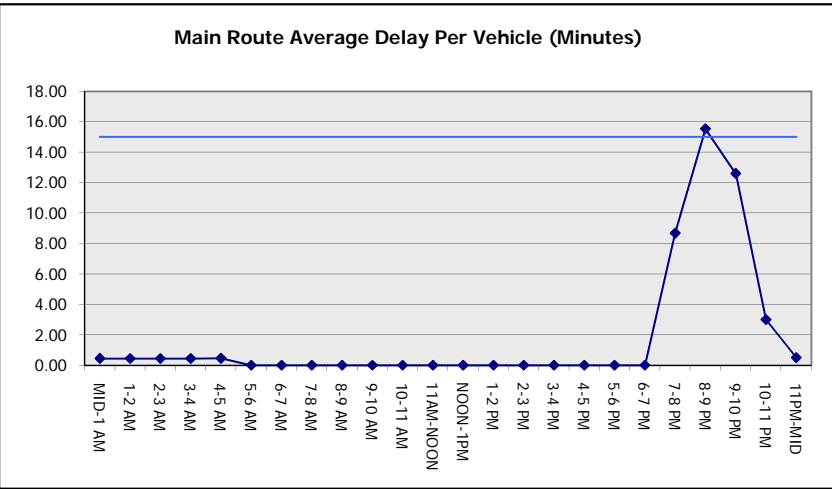
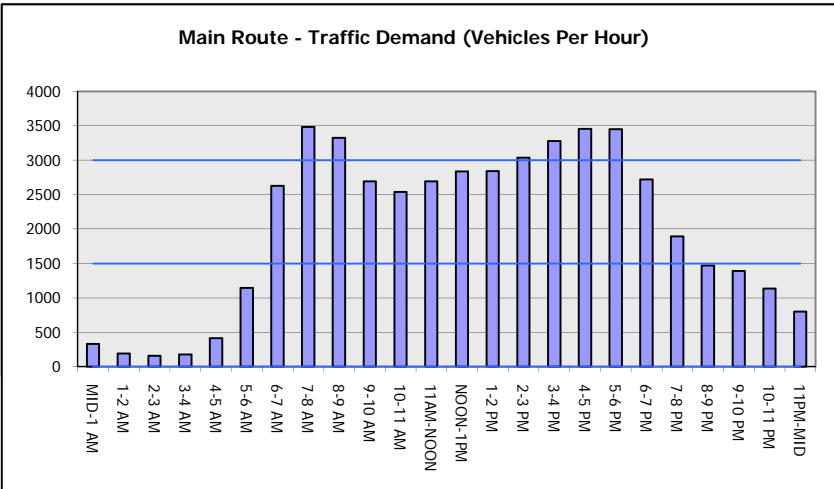
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0253
MAIN ROUTE WITH WORKS	0.0247
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$14,883
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	540	0.0	1500	540	0	0.64	7	65.4	53.9	43.3
1-2 AM	301	0.0	1500	301	0	0.45	0	65.8	57.3	44.3
2-3 AM	229	0.0	1500	229	0	0.44	0	66.0	57.4	44.6
3-4 AM	237	0.0	1500	237	0	0.45	0	66.0	57.4	44.5
4-5 AM	343	0.0	1500	343	0	0.46	0	65.8	57.1	44.1
5-6 AM	861	0.0	OFF	861	0	0.00	0	64.8	64.8	64.8
6-7 AM	1904	0.0	OFF	1904	0	0.00	0	62.8	62.8	62.8
7-8 AM	2523	0.0	OFF	2523	0	0.00	0	60.7	60.7	60.7
8-9 AM	2878	0.0	OFF	2878	0	0.00	0	57.0	57.0	57.0
9-10 AM	2515	0.0	OFF	2515	0	0.00	0	60.7	60.7	60.7
10-11 AM	2689	0.0	OFF	2689	0	0.00	0	58.9	58.9	58.9
11AM-NOON	3075	0.0	OFF	3075	0	0.00	0	55.0	55.0	55.0
NOON-1PM	3238	0.0	OFF	3238	0	0.00	0	53.3	53.3	53.3
1-2 PM	3381	0.0	OFF	3381	0	0.00	0	51.9	51.9	51.9
2-3 PM	3673	0.0	OFF	3673	0	0.00	0	48.9	48.9	48.9
3-4 PM	3936	0.0	OFF	3936	0	0.00	0	46.2	46.2	46.2
4-5 PM	4117	0.0	OFF	4117	0	0.00	0	44.3	44.3	44.3
5-6 PM	4124	0.0	OFF	4124	0	0.00	0	44.3	44.3	44.3
6-7 PM	3085	0.0	OFF	3085	0	0.00	0	54.9	54.9	54.9
7-8 PM	2322	0.0	1499	1942	380	12.32+	319	62.0	12.9	30.9
8-9 PM	1893	0.0	1499	1493	400	15.94+	403	62.8	10.7	30.8
9-10 PM	1846	0.0	1499	1499	346	15.96+	403	63.0	10.7	30.8
10-11 PM	1897	0.0	1499	1499	398	15.96+	403	62.8	10.7	30.8
11PM-MID	1201	0.0	1499	1179	22	11.47+	307	64.1	13.7	32.9

"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	0.0277
MAIN ROUTE WITH WORKS	0.0263
'DIVERSION'	0.0019

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$32,390
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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