

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

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	375	0.0	1500	375	0	0.46	0	65.7	57.0	44.0	
1-2 AM	178	0.0	1500	178	0	0.44	0	66.1	57.6	44.8	
2-3 AM	142	0.0	1500	142	0	0.44	0	66.1	57.7	44.9	
3-4 AM	151	0.0	1500	151	0	0.44	0	66.1	57.7	44.9	
4-5 AM	224	0.0	1500	224	0	0.44	0	66.0	57.4	44.6	
5-6 AM	427	0.0	1500	427	0	0.46	0	65.6	56.8	43.8	
6-7 AM	770	0.0	1500	770	0	0.50	0	65.0	55.8	42.5	
7-8 AM	1349	0.0	1499	1349	0	0.82	0	63.9	50.5	34.6	
8-9 AM	1831	0.0	OFF	1831	0	0.00	0	63.0	63.0	63.0	
9-10 AM	1469	0.0	OFF	1469	0	0.00	0	63.7	63.7	63.7	
10-11 AM	1879	0.0	OFF	1879	0	0.00	0	62.9	62.9	62.9	
11AM-NOON	2559	0.0	OFF	2559	0	0.00	0	60.3	60.3	60.3	
NOON-1PM	2614	0.0	OFF	2614	0	0.00	0	59.7	59.7	59.7	
1-2 PM	2587	0.0	OFF	2587	0	0.00	0	60.0	60.0	60.0	
2-3 PM	2627	0.0	OFF	2627	0	0.00	0	59.6	59.6	59.6	
3-4 PM	2642	0.0	OFF	2642	0	0.00	0	59.4	59.4	59.4	
4-5 PM	2671	0.0	OFF	2671	0	0.00	0	59.1	59.1	59.1	
5-6 PM	2464	0.0	OFF	2464	0	0.00	0	61.2	61.2	61.2	
6-7 PM	2265	0.0	1499	1952	313	11.99+	315	62.2	13.2	30.8	
7-8 PM	1343	0.0	1499	1250	93	12.99+	331	63.9	12.4	30.9	
8-9 PM	1076	0.0	1500	1076	0	1.70	49	64.4	41.5	39.2	
9-10 PM	1245	0.0	1500	1245	0	0.69	0	64.1	52.3	37.1	
10-11 PM	1079	0.0	1500	1079	0	0.53	0	64.4	55.0	41.4	
11PM-MID	720	0.0	1500	720	0	0.49	0	65.0	56.0	42.7	

"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

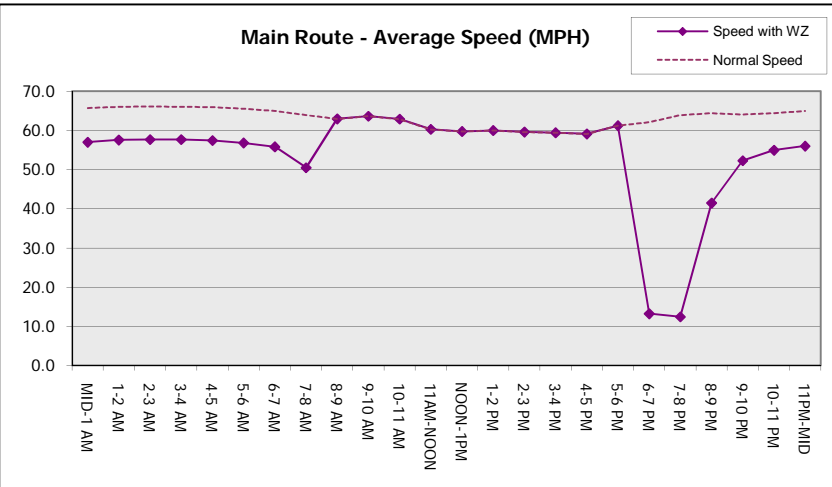
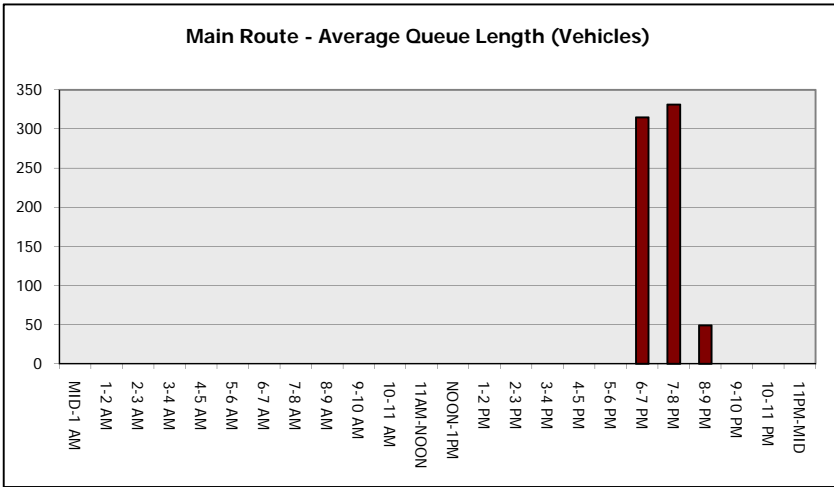
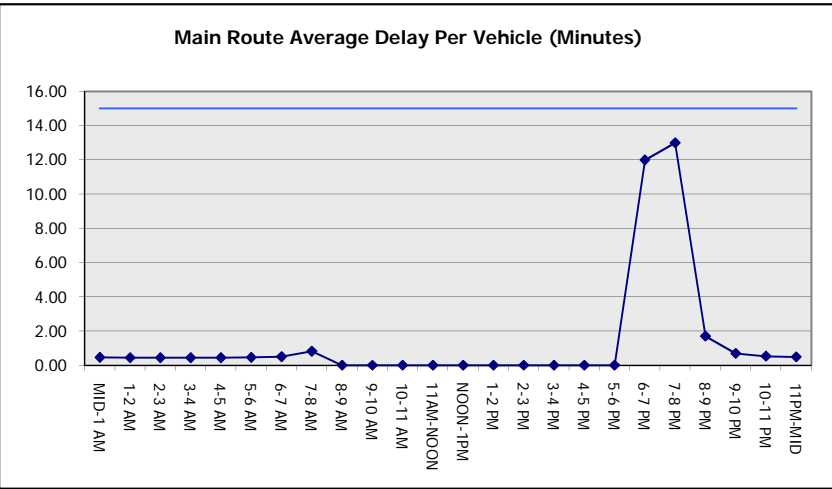
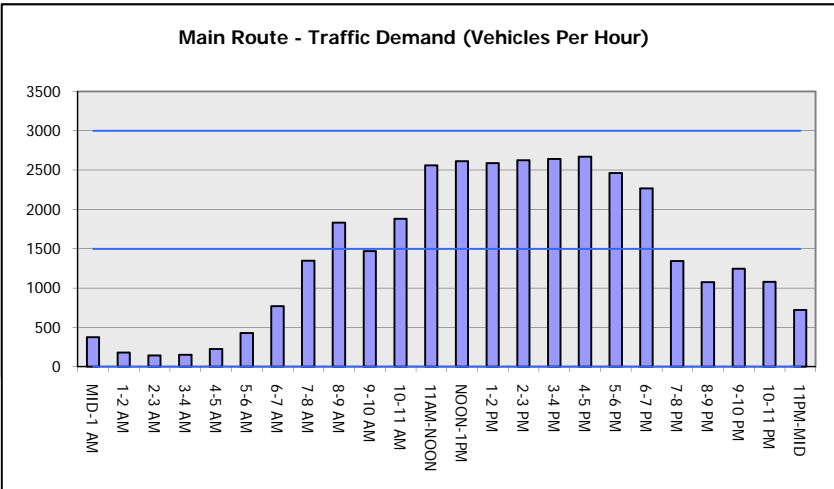
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0182
MAIN ROUTE WITH WORKS	0.0173
'DIVERSION'	0.0005
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$13,992
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	559	0.0	1500	559	0	0.48	0	65.3	56.4	43.3
1-2 AM	353	0.0	1500	353	0	0.46	0	65.7	57.1	44.1
2-3 AM	274	0.0	1500	274	0	0.45	0	65.9	57.3	44.4
3-4 AM	196	0.0	1500	196	0	0.44	0	66.0	57.6	44.7
4-5 AM	195	0.0	1500	195	0	0.44	0	66.0	57.6	44.7
5-6 AM	388	0.0	1500	388	0	0.46	0	65.6	56.9	44.0
6-7 AM	808	0.0	1500	808	0	0.50	0	64.9	55.7	42.4
7-8 AM	1328	0.0	1499	1328	0	0.79	0	63.9	50.9	35.1
8-9 AM	1848	0.0	OFF	1848	0	0.00	0	63.0	63.0	63.0
9-10 AM	1495	0.0	OFF	1495	0	0.00	0	63.6	63.6	63.6
10-11 AM	1877	0.0	OFF	1877	0	0.00	0	62.9	62.9	62.9
11AM-NOON	2624	0.0	OFF	2624	0	0.00	0	59.6	59.6	59.6
NOON-1PM	2859	0.0	OFF	2859	0	0.00	0	57.2	57.2	57.2
1-2 PM	2692	0.0	OFF	2692	0	0.00	0	58.9	58.9	58.9
2-3 PM	2716	0.0	OFF	2716	0	0.00	0	58.7	58.7	58.7
3-4 PM	2705	0.0	OFF	2705	0	0.00	0	58.8	58.8	58.8
4-5 PM	2475	0.0	OFF	2475	0	0.00	0	61.2	61.2	61.2
5-6 PM	2251	0.0	OFF	2251	0	0.00	0	62.2	62.2	62.2
6-7 PM	1981	0.0	1499	1932	48	9.55+	264	62.7	15.7	30.8
7-8 PM	1242	0.0	1499	1232	11	12.29+	318	64.1	13.0	31.4
8-9 PM	1216	0.0	1500	1216	0	1.70	38	64.1	41.3	36.1
9-10 PM	1753	0.0	1499	1753	0	4.88	122	63.1	24.7	30.8
10-11 PM	1353	0.0	1499	1353	0	8.41	206	63.8	17.2	31.3
11PM-MID	900	0.0	1500	900	0	0.78	11	64.7	51.5	42.0

"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	0.0189
MAIN ROUTE WITH WORKS	0.0181
'DIVERSION'	0.0001

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$16,453
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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