

**IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)  
NIGHTTIME 2 LANE CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**  
FRIDAY WESTBOUND 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	980	0.0	1499	980	0	4.04	178	69.5	21.8	36.8
1-2 AM	758	0.0	1500	758	0	0.56	0	69.8	53.2	42.5
2-3 AM	581	0.0	1500	581	0	0.54	0	70.0	53.8	43.2
3-4 AM	794	0.0	1500	794	0	0.56	0	69.7	53.2	42.4
4-5 AM	1925	0.0	1499	1925	0	2.97	110	68.3	26.1	30.8
5-6 AM	4070	0.0	OFF	4070	0	0.57	46	63.0	49.1	49.1
6-7 AM	5657	0.0	OFF	5657	0	0.00	0	52.2	52.2	52.2
7-8 AM	5276	0.0	OFF	5276	0	0.00	0	54.8	54.8	54.8
8-9 AM	4433	0.0	OFF	4433	0	0.00	0	60.5	60.5	60.5
9-10 AM	4372	0.0	OFF	4372	0	0.00	0	61.0	61.0	61.0
10-11 AM	4830	0.0	OFF	4830	0	0.00	0	57.9	57.9	57.9
11AM-NOON	5259	0.0	OFF	5259	0	0.00	0	55.0	55.0	55.0
NOON-1PM	5441	0.0	OFF	5441	0	0.00	0	53.7	53.7	53.7
1-2 PM	5825	0.0	OFF	5825	0	0.00	0	51.0	51.0	51.0
2-3 PM	5594	0.0	OFF	5594	0	0.00	0	52.7	52.7	52.7
3-4 PM	5745	0.0	OFF	5745	0	0.00	0	51.6	51.6	51.6
4-5 PM	5626	0.0	OFF	5626	0	0.00	0	52.4	52.4	52.4
5-6 PM	5183	0.0	OFF	5183	0	0.00	0	55.5	55.5	55.5
6-7 PM	3973	0.0	OFF	3973	0	0.00	0	63.7	63.7	63.7
7-8 PM	3221	0.0	1499	1570	1650	17.10+	427	66.8	7.6	36.6
8-9 PM	3087	0.0	1499	1667	1420	14.86+	388	66.9	8.4	35.6
9-10 PM	3095	0.0	1499	1609	1486	16.60+	408	66.9	7.7	30.9
10-11 PM	2605	0.0	1500	1519	1087	16.84+	413	67.5	7.6	30.8
11PM-MID	1978	0.0	1500	1521	457	16.67+	408	68.2	7.6	30.8

"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

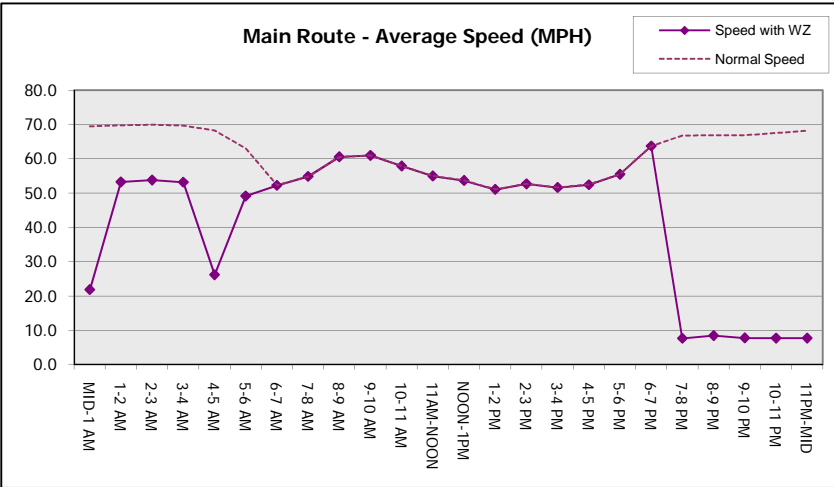
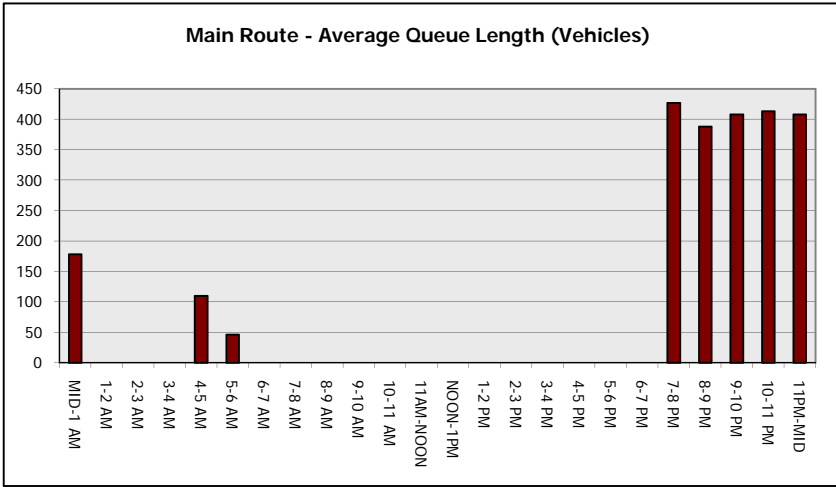
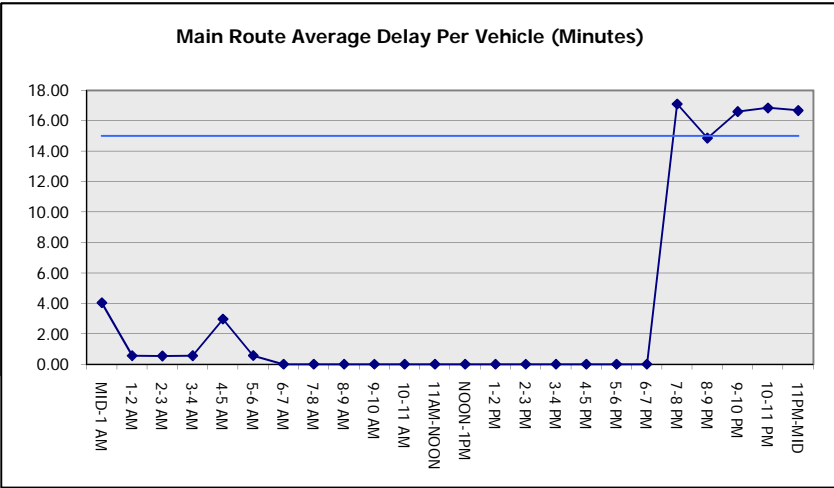
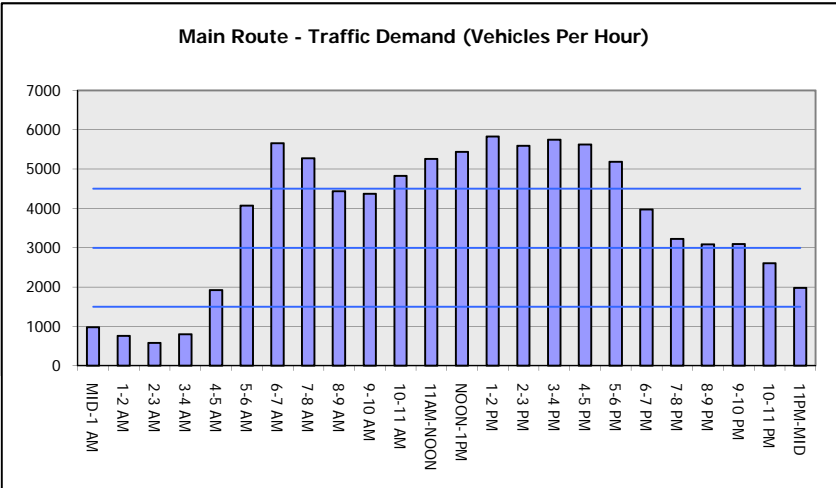
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0302
MAIN ROUTE WITH WORKS	0.0273
'DIVERSION'	0.0047
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$56,664
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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**MAY**  
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Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY WESTBOUND DIRECTION**



<b>IH 94: USH 41 AND IH 43 (MILWAUKEE COUNTY)                  NIGHTTIME 2 LANE CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>MAY</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY EASTBOUND 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	704	0.0	1500	704	0	1.66	74	69.9	36.4	42.2
1-2 AM	536	0.0	1500	536	0	0.54	0	70.0	54.0	43.3
2-3 AM	566	0.0	1500	566	0	0.54	0	70.0	53.8	43.3
3-4 AM	708	0.0	1500	708	0	0.56	0	69.9	53.4	42.7
4-5 AM	1852	0.0	1499	1852	0	2.61	96	68.4	28.3	31.5
5-6 AM	4061	0.0	OFF	4061	0	0.47	38	63.1	51.1	51.1
6-7 AM	5101	0.0	OFF	5101	0	0.00	0	56.0	56.0	56.0
7-8 AM	4765	0.0	OFF	4765	0	0.00	0	58.3	58.3	58.3
8-9 AM	4243	0.0	OFF	4243	0	0.00	0	61.9	61.9	61.9
9-10 AM	3909	0.0	OFF	3909	0	0.00	0	64.1	64.1	64.1
10-11 AM	3930	0.0	OFF	3930	0	0.00	0	64.0	64.0	64.0
11AM-NOON	3999	0.0	OFF	3999	0	0.00	0	63.5	63.5	63.5
NOON-1PM	4085	0.0	OFF	4085	0	0.00	0	63.0	63.0	63.0
1-2 PM	4237	0.0	OFF	4237	0	0.00	0	61.9	61.9	61.9
2-3 PM	4397	0.0	OFF	4397	0	0.00	0	60.8	60.8	60.8
3-4 PM	4347	0.0	OFF	4347	0	0.00	0	61.2	61.2	61.2
4-5 PM	4486	0.0	OFF	4486	0	0.00	0	60.2	60.2	60.2
5-6 PM	4097	0.0	OFF	4097	0	0.00	0	62.8	62.8	62.8
6-7 PM	3677	0.0	OFF	3677	0	0.00	0	65.8	65.8	65.8
7-8 PM	3081	0.0	1499	1570	1510	17.09+	427	66.9	7.6	36.6
8-9 PM	3124	0.0	1499	1670	1455	14.87+	388	66.9	8.4	35.6
9-10 PM	3220	0.0	1499	1577	1643	16.59+	410	66.8	7.7	32.9
10-11 PM	2362	0.0	1500	1532	830	16.72+	410	67.8	7.6	31.4
11PM-MID	1493	0.0	1500	1469	24	15.65+	382	68.9	7.9	30.8

"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	0.0257
MAIN ROUTE WITH WORKS	0.0231
'DIVERSION'	0.0042

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$52,441
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding User-Specified Maximum

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Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY EASTBOUND DIRECTION**

