

**IH 94: STH 181 TO USH 41 (MILWAUKEE COUNTY)
NIGHTTIME 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

MAY
Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT
SUNDAY 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	1409	0.0	1500	1409	0	0.98	0	69.0	46.9	32.7	
1-2 AM	1072	0.0	1500	1072	0	0.59	0	69.4	53.9	41.4	
2-3 AM	1135	0.0	1500	1135	0	0.62	0	69.3	53.3	40.6	
3-4 AM	528	0.0	1500	528	0	0.54	0	70.0	55.6	43.4	
4-5 AM	409	0.0	1500	409	0	0.52	0	70.2	55.9	43.8	
5-6 AM	522	0.0	1500	522	0	0.54	0	70.1	55.6	43.4	
6-7 AM	888	0.0	1500	888	0	0.57	0	69.6	54.5	42.1	
7-8 AM	1130	0.0	1499	1130	0	0.66	0	69.3	52.7	39.8	
8-9 AM	1548	0.0	1499	1548	0	1.72	24	68.8	37.8	31.9	
9-10 AM	2313	0.0	OFF	2313	0	0.02	1	67.9	67.3	67.3	
10-11 AM	2918	0.0	OFF	2918	0	0.00	0	67.1	67.1	67.1	
11AM-NOON	3557	0.0	OFF	3557	0	0.00	0	66.3	66.3	66.3	
NOON-1PM	3956	0.0	OFF	3956	0	0.00	0	63.8	63.8	63.8	
1-2 PM	3799	0.0	OFF	3799	0	0.00	0	64.9	64.9	64.9	
2-3 PM	3951	0.0	OFF	3951	0	0.00	0	63.8	63.8	63.8	
3-4 PM	4056	0.0	OFF	4056	0	0.00	0	63.2	63.2	63.2	
4-5 PM	4369	0.0	OFF	4369	0	0.00	0	61.0	61.0	61.0	
5-6 PM	3419	0.0	OFF	3419	0	0.00	0	66.5	66.5	66.5	
6-7 PM	2716	0.0	OFF	2716	0	0.00	0	67.4	67.4	67.4	
7-8 PM	2378	0.0	1499	1970	408	12.84+	322	67.8	9.9	30.8	
8-9 PM	2010	0.0	1499	1479	531	16.48+	403	68.2	8.1	30.8	
9-10 PM	1810	0.0	1499	1470	339	16.44+	402	68.5	8.1	30.8	
10-11 PM	1398	0.0	1499	1366	32	15.11+	369	69.0	8.6	30.8	
11PM-MID	906	0.0	1500	906	0	1.75	68	69.6	37.7	41.2	

"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

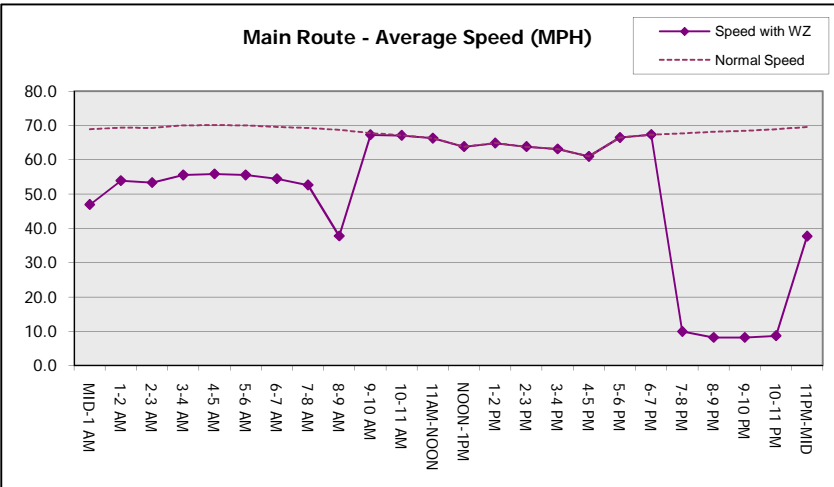
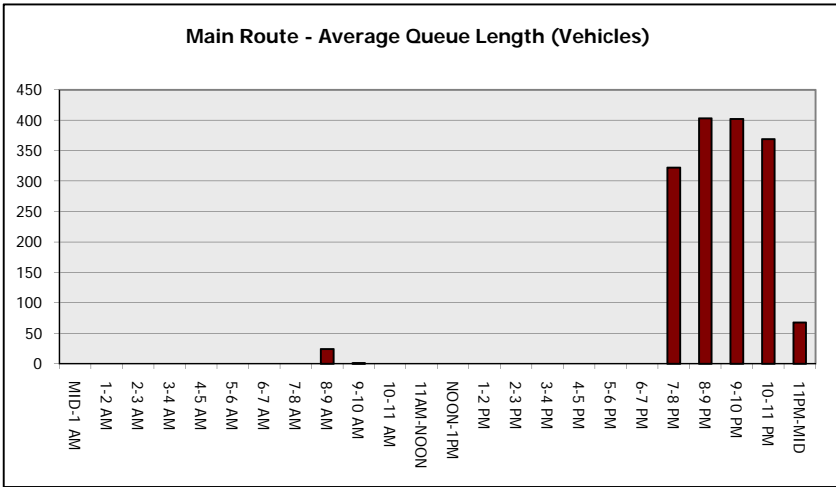
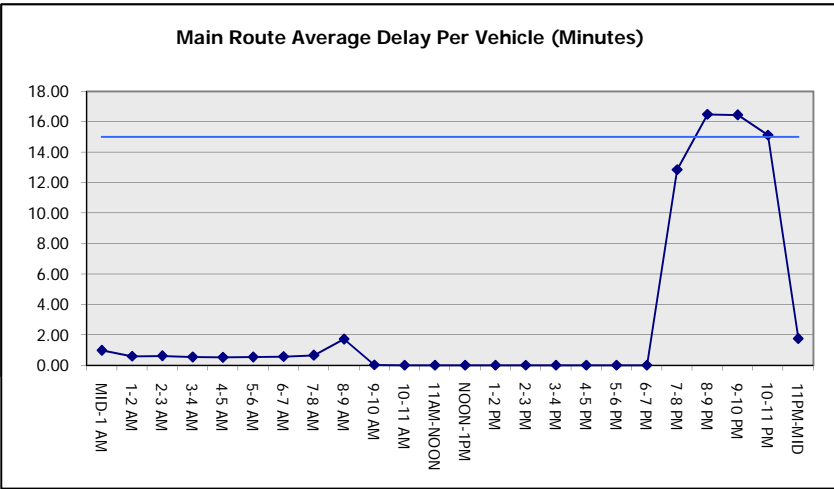
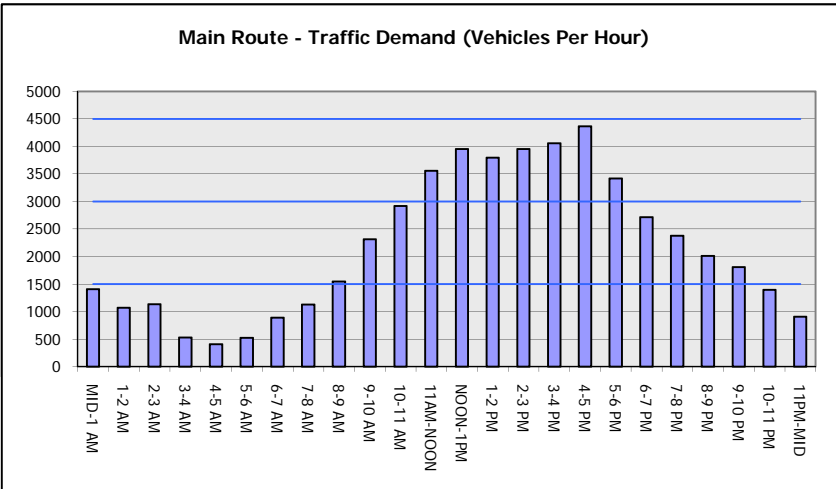
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0199
MAIN ROUTE WITH WORKS	0.0184
'DIVERSION'	0.0012
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$32,257
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



IH 94: STH 181 TO USH 41 (MILWAUKEE COUNTY) NIGHTTIME 2 LANE CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	1153	0.0	1500	1153	0	0.65	0	69.3	52.8	40.0
1-2 AM	692	0.0	1500	692	0	0.55	0	69.9	55.1	42.8
2-3 AM	547	0.0	1500	547	0	0.54	0	70.0	55.5	43.3
3-4 AM	345	0.0	1500	345	0	0.51	0	70.2	56.1	44.1
4-5 AM	264	0.0	1500	264	0	0.50	0	70.2	56.3	44.4
5-6 AM	413	0.0	1500	413	0	0.52	0	70.2	55.9	43.8
6-7 AM	789	0.0	1500	789	0	0.56	0	69.7	54.8	42.4
7-8 AM	1160	0.0	1499	1160	0	0.70	0	69.3	51.8	38.7
8-9 AM	1823	0.0	1499	1823	0	4.47	121	68.5	21.9	30.8
9-10 AM	2431	0.0	OFF	2431	0	0.16	14	67.7	63.0	63.0
10-11 AM	3094	0.0	OFF	3094	0	0.00	0	66.9	66.9	66.9
11AM-NOON	3980	0.0	OFF	3980	0	0.00	0	63.7	63.7	63.7
NOON-1PM	3644	0.0	OFF	3644	0	0.00	0	66.0	66.0	66.0
1-2 PM	3830	0.0	OFF	3830	0	0.00	0	64.7	64.7	64.7
2-3 PM	3753	0.0	OFF	3753	0	0.00	0	65.2	65.2	65.2
3-4 PM	3733	0.0	OFF	3733	0	0.00	0	65.3	65.3	65.3
4-5 PM	3700	0.0	OFF	3700	0	0.00	0	65.6	65.6	65.6
5-6 PM	3549	0.0	OFF	3549	0	0.00	0	66.3	66.3	66.3
6-7 PM	3496	0.0	OFF	3496	0	0.00	0	66.4	66.4	66.4
7-8 PM	3102	0.0	1499	1560	1542	16.79+	419	66.9	8.1	36.6
8-9 PM	2649	0.0	1499	1627	1022	14.25+	377	67.4	9.2	35.8
9-10 PM	2377	0.0	1499	1753	624	15.35+	381	67.8	8.6	31.2
10-11 PM	1819	0.0	1499	1461	358	16.40+	401	68.5	8.2	30.8
11PM-MID	1036	0.0	1499	1036	0	5.11	193	69.4	20.1	36.3

"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	0.0204
MAIN ROUTE WITH WORKS	0.0181
'DIVERSION'	0.0031

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$45,204
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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SUNDAY EASTBOUND DIRECTION

