

<b>IH 94: STH 181 TO USH 41 (MILWAUKEE COUNTY)</b> <b>NIGHTTIME CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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	1417	0.0	3000	1417	0	0.34	0	69.0	59.2	49.7	
1-2 AM	980	0.0	3000	980	0	0.35	0	69.5	59.4	49.7	
2-3 AM	1023	0.0	3000	1023	0	0.35	0	69.5	59.4	49.7	
3-4 AM	658	0.0	3000	658	0	0.36	0	69.9	59.6	49.7	
4-5 AM	590	0.0	3000	590	0	0.36	0	70.0	59.6	49.7	
5-6 AM	971	0.0	3000	971	0	0.35	0	69.6	59.4	49.7	
6-7 AM	1623	0.0	3000	1623	0	0.34	0	68.7	59.1	49.7	
7-8 AM	2185	0.0	2999	2185	0	0.33	0	68.0	58.8	49.7	
8-9 AM	2885	0.0	OFF	2885	0	0.00	0	67.1	67.1	67.1	
9-10 AM	3378	0.0	OFF	3378	0	0.00	0	66.5	66.5	66.5	
10-11 AM	3912	0.0	OFF	3912	0	0.00	0	64.1	64.1	64.1	
11AM-NOON	4064	0.0	OFF	4064	0	0.00	0	63.1	63.1	63.1	
NOON-1PM	4220	0.0	OFF	4220	0	0.00	0	62.0	62.0	62.0	
1-2 PM	4028	0.0	OFF	4028	0	0.00	0	63.3	63.3	63.3	
2-3 PM	4189	0.0	OFF	4189	0	0.00	0	62.2	62.2	62.2	
3-4 PM	4053	0.0	OFF	4053	0	0.00	0	63.2	63.2	63.2	
4-5 PM	3349	0.0	OFF	3349	0	0.00	0	66.6	66.6	66.6	
5-6 PM	3103	0.0	OFF	3103	0	0.00	0	66.9	66.9	66.9	
6-7 PM	2761	0.0	3000	2761	0	0.57	0	67.3	53.1	41.3	
7-8 PM	2291	0.0	2999	2291	0	0.33	0	67.9	58.7	49.7	
8-9 PM	3312	0.0	2999	3312	0	2.14	102	66.6	33.5	37.3	
9-10 PM	4007	0.0	3000	3558	449	13.51+	734	63.5	11.7	37.3	
10-11 PM	2501	0.0	2999	2501	0	12.90+	687	67.6	12.0	38.1	
11PM-MID	1846	0.0	3000	1846	0	0.95	67	68.4	47.1	49.7	

"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

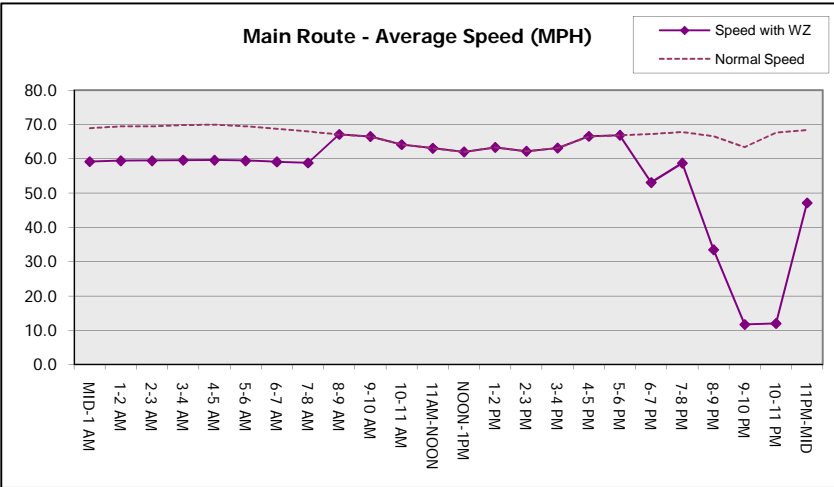
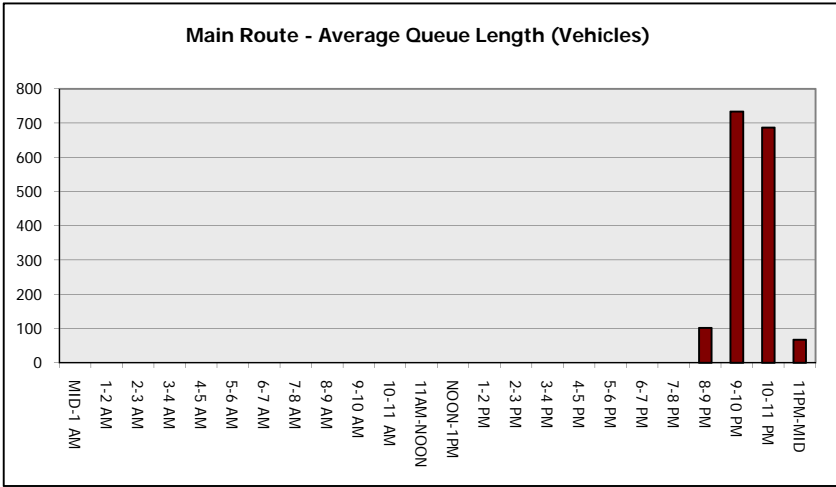
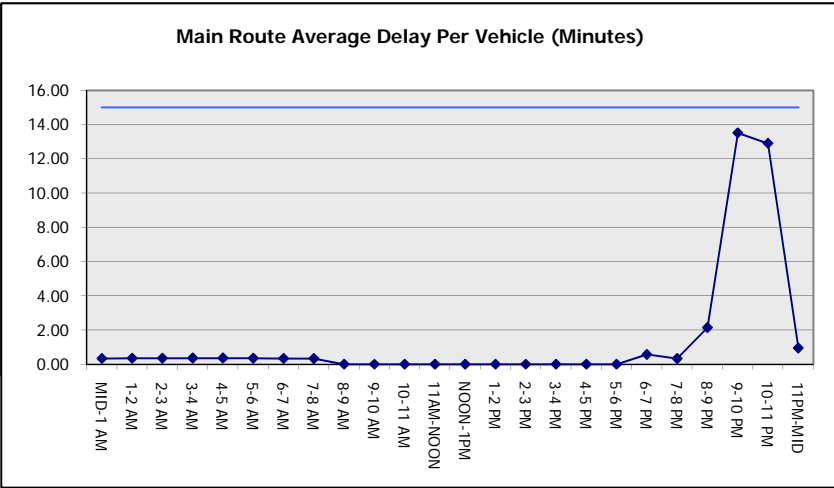
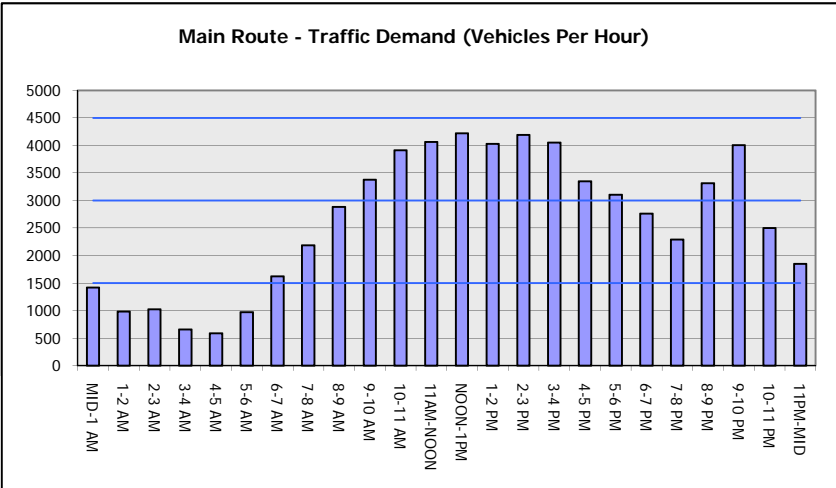
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0242
MAIN ROUTE WITH WORKS	0.0223
'DIVERSION'	0.0004
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$27,152
CONGESTED HOURS PER DAY*	2

\*Delays Exceeding User-Specified Maximum

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

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



<b>IH 94: STH 181 TO USH 41 (MILWAUKEE COUNTY)                  NIGHTTIME CLOSURE                  NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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	1937	0.0	3000	1937	0	0.34	0	68.3	58.9	49.7
1-2 AM	717	0.0	3000	717	0	0.36	0	69.9	59.6	49.7
2-3 AM	542	0.0	3000	542	0	0.36	0	70.0	59.7	49.7
3-4 AM	419	0.0	3000	419	0	0.36	0	70.2	59.7	49.7
4-5 AM	509	0.0	3000	509	0	0.36	0	70.1	59.7	49.7
5-6 AM	870	0.0	3000	870	0	0.35	0	69.7	59.5	49.7
6-7 AM	1359	0.0	3000	1359	0	0.34	0	69.1	59.2	49.7
7-8 AM	1712	0.0	3000	1712	0	0.34	0	68.6	59.1	49.7
8-9 AM	2166	0.0	OFF	2166	0	0.00	0	68.1	68.1	68.1
9-10 AM	2534	0.0	OFF	2534	0	0.00	0	67.6	67.6	67.6
10-11 AM	3147	0.0	OFF	3147	0	0.00	0	66.8	66.8	66.8
11AM-NOON	3371	0.0	OFF	3371	0	0.00	0	66.6	66.6	66.6
NOON-1PM	3841	0.0	OFF	3841	0	0.00	0	64.6	64.6	64.6
1-2 PM	3660	0.0	OFF	3660	0	0.00	0	65.8	65.8	65.8
2-3 PM	4308	0.0	OFF	4308	0	0.00	0	61.4	61.4	61.4
3-4 PM	5312	0.0	OFF	5312	0	0.00	0	54.6	54.6	54.6
4-5 PM	5355	0.0	OFF	5355	0	0.00	0	54.3	54.3	54.3
5-6 PM	4828	0.0	OFF	4828	0	0.00	0	57.9	57.9	57.9
6-7 PM	3685	0.0	2999	3685	0	6.96	391	65.7	16.9	37.3
7-8 PM	3280	0.0	2999	3179	101	15.63+	824	66.6	10.9	37.3
8-9 PM	3118	0.0	3000	3004	114	16.59+	874	66.9	10.7	37.3
9-10 PM	3191	0.0	3000	3003	188	16.60+	875	66.8	10.7	37.3
10-11 PM	3044	0.0	3000	2951	93	16.35+	860	66.9	10.7	37.3
11PM-MID	2033	0.0	2999	2033	0	4.55	382	68.2	23.3	44.4

"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	0.0248
MAIN ROUTE WITH WORKS	0.0229
'DIVERSION'	0.0004

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$65,562
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding User-Specified Maximum

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

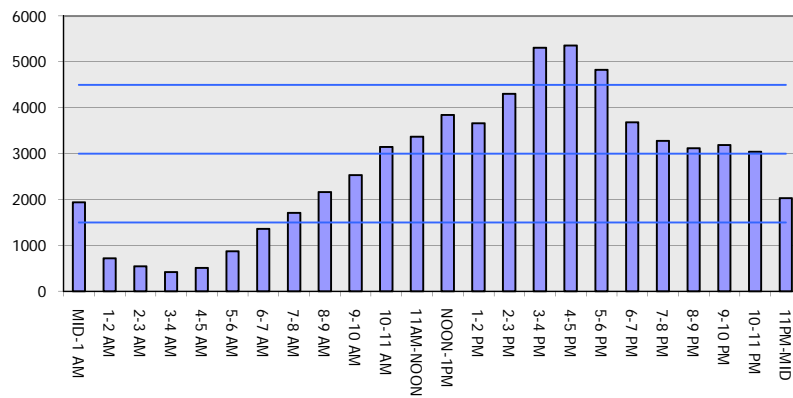
**AUGUST**

Analyzed for 2009  
Construction Season

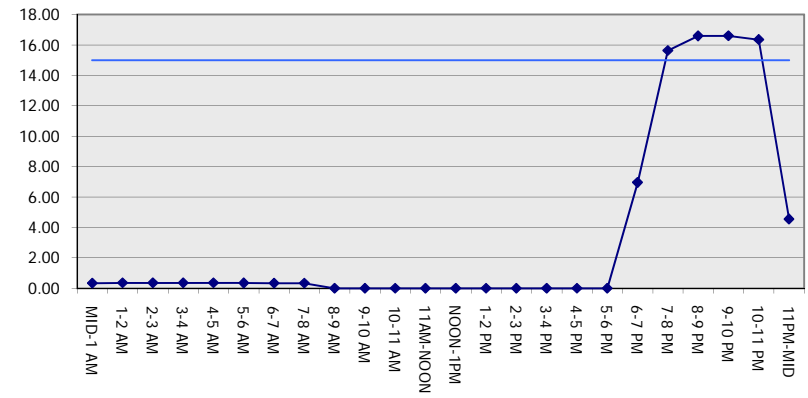
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SATURDAY EASTBOUND DIRECTION**

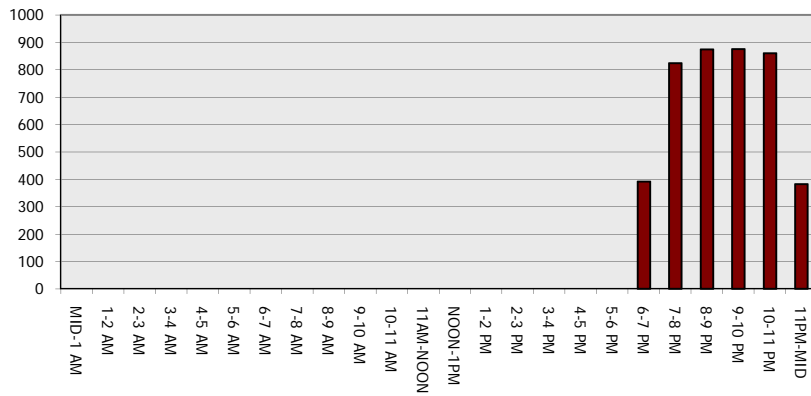
**Main Route - Traffic Demand (Vehicles Per Hour)**



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



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



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

