

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)  
NIGHTTIME CLOSURE  
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**AUGUST**  
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		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	426	0.0	253	0.0	3000	426	0	253	0.36	0	70.2	54.0	49.7	38.4	38.4
1-2 AM	263	0.0	156	0.0	3000	263	0	156	0.36	0	70.2	54.0	49.7	38.9	38.9
2-3 AM	178	0.0	106	0.0	3000	178	0	106	0.36	0	70.2	54.0	49.7	39.2	39.2
3-4 AM	180	0.0	107	0.0	3000	180	0	107	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	302	0.0	179	0.0	3000	302	0	179	0.36	0	70.2	54.0	49.7	38.8	38.8
5-6 AM	1104	0.0	655	0.0	OFF	1104	0	655	0.00	0	69.4	69.4	69.4	36.4	36.4
6-7 AM	2887	0.0	1715	0.0	OFF	2887	0	1715+	0.00	0	67.1	67.1	67.1	30.9	30.9
7-8 AM	3913	0.0	2324	0.0	OFF	3913	0	2324+	0.00	0	64.1	64.1	64.1	27.8	27.8
8-9 AM	3068	0.0	1822	0.0	OFF	3068	0	1822+	0.00	0	66.9	66.9	66.9	30.4	30.4
9-10 AM	2481	0.0	1473	0.0	OFF	2481	0	1473+	0.00	0	67.6	67.6	67.6	32.2	32.2
10-11 AM	2390	0.0	1420	0.0	OFF	2390	0	1420+	0.00	0	67.8	67.8	67.8	32.4	32.4
11A-NOON	2614	0.0	1552	0.0	OFF	2614	0	1552+	0.00	0	67.5	67.5	67.5	31.8	31.8
NOON-1PM	2735	0.0	1624	0.0	OFF	2735	0	1624+	0.00	0	67.3	67.3	67.3	31.4	31.4
1-2 PM	2797	0.0	1661	0.0	OFF	2797	0	1661+	0.00	0	67.3	67.3	67.3	31.2	31.2
2-3 PM	2914	0.0	1731	0.0	OFF	2914	0	1731+	0.00	0	67.1	67.1	67.1	30.9	30.9
3-4 PM	3059	0.0	1817	0.0	OFF	3059	0	1817+	0.00	0	66.9	66.9	66.9	30.4	30.4
4-5 PM	3096	0.0	1838	0.0	OFF	3096	0	1838+	0.00	0	66.9	66.9	66.9	30.3	30.3
5-6 PM	2967	0.0	1762	0.0	OFF	2967	0	1762+	0.00	0	67.1	67.1	67.1	30.7	30.7
6-7 PM	2419	0.0	1437	0.0	OFF	2419	0	1437+	0.00	0	67.8	67.8	67.8	32.4	32.4
7-8 PM	1864	0.0	1107	0.0	3000	1864	0	1107	0.34	0	68.4	53.7	49.7	34.0	34.0
8-9 PM	1580	0.0	939	0.0	3000	1580	0	939	0.34	0	68.7	53.7	49.7	34.9	34.9
9-10 PM	1415	0.0	840	0.0	3000	1415	0	840	0.34	0	69.0	53.8	49.7	35.4	35.4
10-11 PM	1075	0.0	638	0.0	3000	1075	0	638	0.35	0	69.4	53.8	49.7	36.5	36.5
11PM-MID	785	0.0	466	0.0	3000	785	0	466	0.35	0	69.7	53.9	49.7	37.3	37.3

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0103
MAIN ROUTE WITH WORKS	0.0098
DIVERSION	0.0426

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$575
CONGESTED HOURS PER DAY*	0

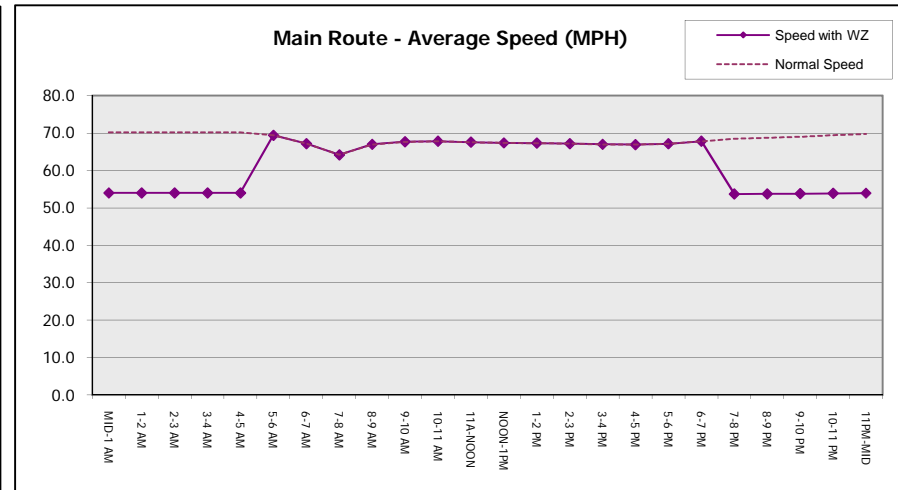
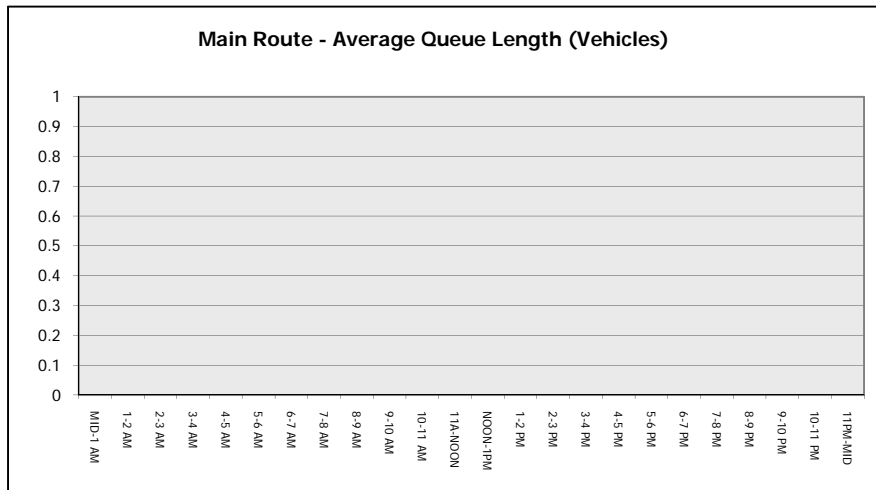
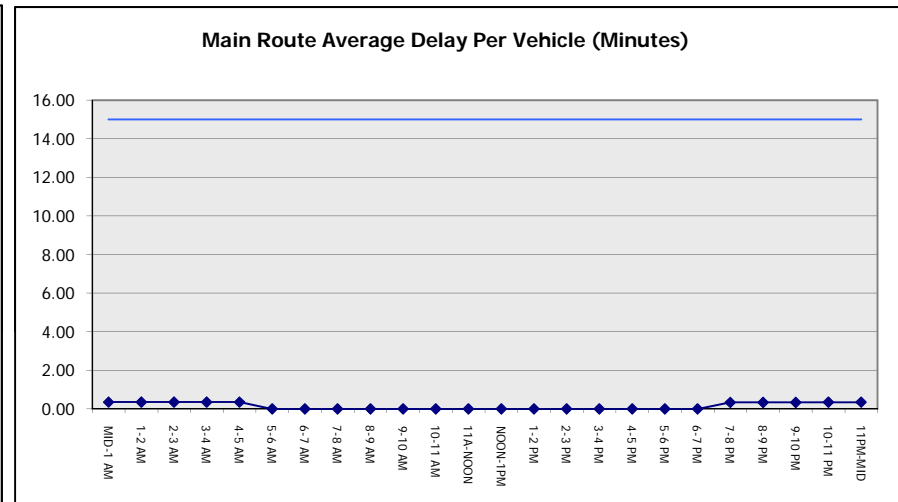
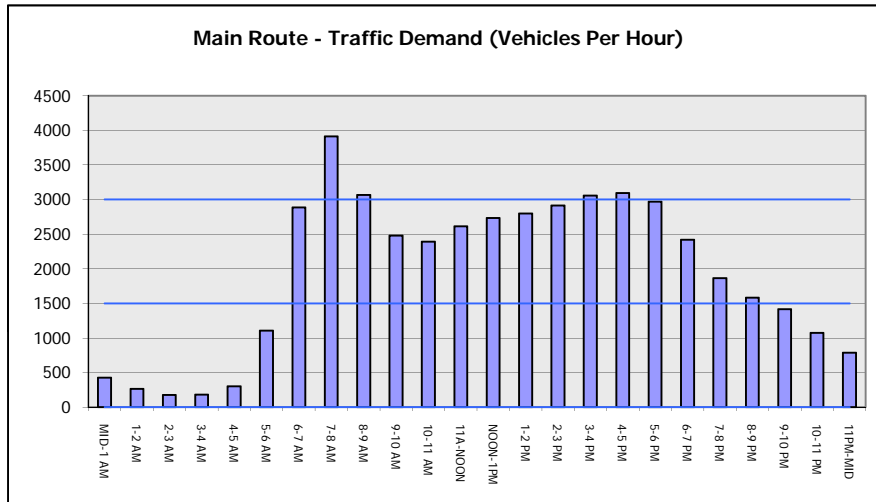
\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**NIGHTTIME CLOSURE**  
**DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

**FRIDAY WESTBOUND DIRECTION**



<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>NIGHTTIME CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>AUGUST</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		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	328	0.0	195	0.0	3000	328	0	195	0.36	0	70.2	54.0	49.7	38.8	38.8
1-2 AM	230	0.0	136	0.0	3000	230	0	136	0.36	0	70.2	54.0	49.7	39.1	39.1
2-3 AM	204	0.0	121	0.0	3000	204	0	121	0.36	0	70.2	54.0	49.7	39.1	39.1
3-4 AM	181	0.0	108	0.0	3000	181	0	108	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	314	0.0	186	0.0	3000	314	0	186	0.36	0	70.2	54.0	49.7	38.8	38.8
5-6 AM	796	0.0	473	0.0	OFF	796	0	473	0.00	0	69.7	69.7	69.7	37.3	37.3
6-7 AM	1869	0.0	1110	0.0	OFF	1869	0	1110	0.00	0	68.4	68.4	68.4	34.0	34.0
7-8 AM	2692	0.0	1599	0.0	OFF	2692	0	1599+	0.00	0	67.4	67.4	67.4	31.5	31.5
8-9 AM	2345	0.0	1393	0.0	OFF	2345	0	1393+	0.00	0	67.8	67.8	67.8	32.6	32.6
9-10 AM	2205	0.0	1309	0.0	OFF	2205	0	1309+	0.00	0	68.0	68.0	68.0	33.0	33.0
10-11 AM	2400	0.0	1425	0.0	OFF	2400	0	1425+	0.00	0	67.8	67.8	67.8	32.4	32.4
11A-NOON	2743	0.0	1629	0.0	OFF	2743	0	1629+	0.00	0	67.3	67.3	67.3	31.4	31.4
NOON-1PM	3116	0.0	1851	0.0	OFF	3116	0	1851+	0.00	0	66.9	66.9	66.9	30.2	30.2
1-2 PM	3177	0.0	1887	0.0	OFF	3177	0	1887+	0.00	0	66.8	66.8	66.8	30.1	30.1
2-3 PM	3509	0.0	2083	0.0	OFF	3509	0	2083+	0.00	0	66.4	66.4	66.4	29.0	29.0
3-4 PM	4069	0.0	2416	0.0	OFF	4069	0	2416+	0.00	0	63.0	63.0	63.0	27.3	27.3
4-5 PM	4084	0.0	2426	0.0	OFF	4084	0	2426+	0.00	0	63.0	63.0	63.0	27.3	27.3
5-6 PM	3617	0.0	2148	0.0	OFF	3617	0	2148+	0.00	0	66.1	66.1	66.1	28.7	28.7
6-7 PM	2486	0.0	1476	0.0	OFF	2486	0	1476+	0.00	0	67.6	67.6	67.6	32.2	32.2
7-8 PM	1780	0.0	1057	0.0	3000	1780	0	1057	0.34	0	68.5	53.7	49.7	34.3	34.3
8-9 PM	1524	0.0	905	0.0	3000	1524	0	905	0.34	0	68.9	53.7	49.7	35.1	35.1
9-10 PM	1355	0.0	805	0.0	3000	1355	0	805	0.35	0	69.1	53.8	49.7	35.6	35.6
10-11 PM	1092	0.0	649	0.0	3000	1092	0	649	0.35	0	69.4	53.8	49.7	36.4	36.4
11PM-MID	752	0.0	447	0.0	3000	752	0	447	0.35	0	69.8	53.9	49.7	37.4	37.4

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- SITE BREAKDOWN DELAYS -----*	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

*----- SITE ACCIDENT DELAYS -----*	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0104
MAIN ROUTE WITH WORKS	0.0099
DIVERSION	0.0430

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$555
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**NIGHTTIME CLOSURE**  
**DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

