

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)  
NIGHTTIME 2 LANE CLOSURE  
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**AUGUST**

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		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	526	0.0	313	0.0	1500	526	0	313	0.54	0	70.0	48.4	43.4	38.1	38.1
1-2 AM	326	0.0	194	0.0	1500	326	0	194	0.51	0	70.2	49.1	44.2	38.8	38.8
2-3 AM	310	0.0	183	0.0	1500	310	0	183	0.51	0	70.2	49.2	44.2	38.8	38.8
3-4 AM	226	0.0	134	0.0	1500	226	0	134	0.50	0	70.2	49.5	44.6	39.1	39.1
4-5 AM	202	0.0	120	0.0	1500	202	0	120	0.50	0	70.2	49.6	44.6	39.1	39.1
5-6 AM	407	0.0	242	0.0	1500	407	0	242	0.52	0	70.2	48.8	43.8	38.5	38.5
6-7 AM	791	0.0	470	0.0	1500	791	0	470	0.56	0	69.7	47.4	42.4	37.3	37.3
7-8 AM	1176	0.0	699	0.0	1499	1176	0	699	0.69	0	69.2	44.1	38.9	36.1	36.1
8-9 AM	1551	0.0	921	0.0	OFF	1551	0	921	0.00	0	68.8	68.8	68.8	35.0	35.0
9-10 AM	1958	0.0	1163	0.0	OFF	1958	0	1163	0.00	0	68.3	68.3	68.3	33.8	33.8
10-11 AM	2245	0.0	1332	0.0	OFF	2245	0	1332+	0.00	0	67.9	67.9	67.9	32.9	32.9
11A-NOON	2455	0.0	1458	0.0	OFF	2455	0	1458+	0.00	0	67.7	67.7	67.7	32.2	32.2
NOON-1PM	2390	0.0	1419	0.0	OFF	2390	0	1419+	0.00	0	67.8	67.8	67.8	32.5	32.5
1-2 PM	2404	0.0	1427	0.0	OFF	2404	0	1427+	0.00	0	67.8	67.8	67.8	32.4	32.4
2-3 PM	2409	0.0	1430	0.0	OFF	2409	0	1430+	0.00	0	67.8	67.8	67.8	32.4	32.4
3-4 PM	2228	0.0	1323	0.0	OFF	2228	0	1323+	0.00	0	67.9	67.9	67.9	32.9	32.9
4-5 PM	2175	0.0	1291	0.0	OFF	2175	0	1291+	0.00	0	68.0	68.0	68.0	33.1	33.1
5-6 PM	1932	0.0	1147	0.0	OFF	1932	0	1147	0.00	0	68.3	68.3	68.3	33.8	33.8
6-7 PM	1757	0.0	1043	0.0	1499	1757	0	1043	5.94	144	68.6	12.5	30.8	34.4	34.5
7-8 PM	1435	0.0	852	0.0	1499	1435	0	852	10.16	238	68.9	8.8	30.8	35.3	35.6
8-9 PM	1315	0.0	781	0.0	1499	1315	0	781	4.49	105	69.1	15.2	32.0	35.7	35.8
9-10 PM	1223	0.0	726	0.0	1500	1223	0	726	0.74	0	69.2	43.0	37.8	36.0	36.0
10-11 PM	1050	0.0	623	0.0	1500	1050	0	623	0.59	0	69.4	46.6	41.5	36.5	36.5
11PM-MID	760	0.0	451	0.0	1500	760	0	451	0.56	0	69.8	47.6	42.5	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 (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	0.0074
MAIN ROUTE WITH WORKS	0.0066
DIVERSION	0.0305

PIA: Personal Injury Accidents

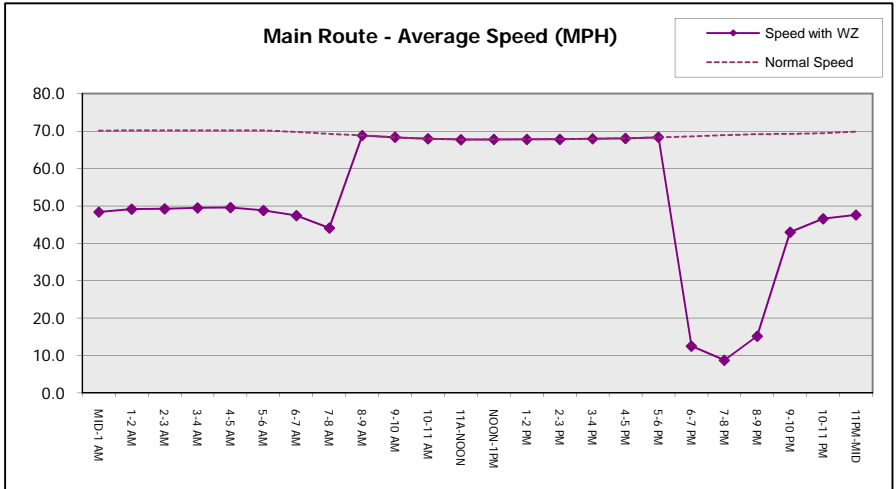
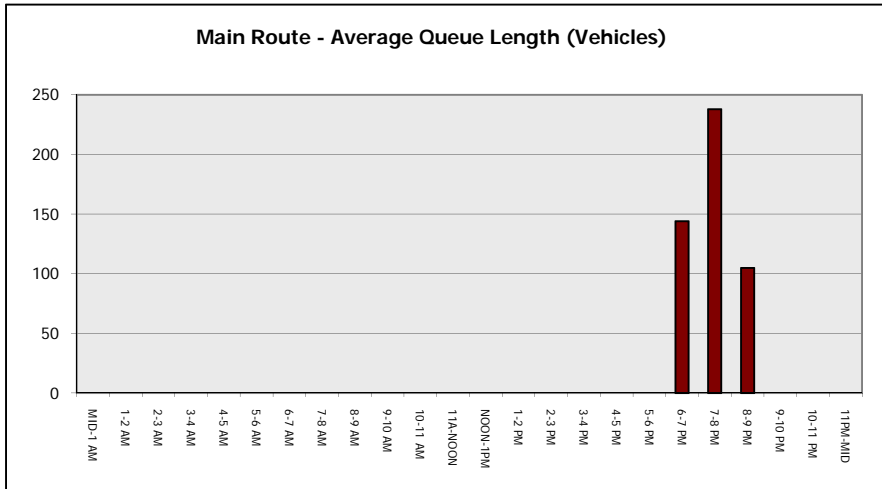
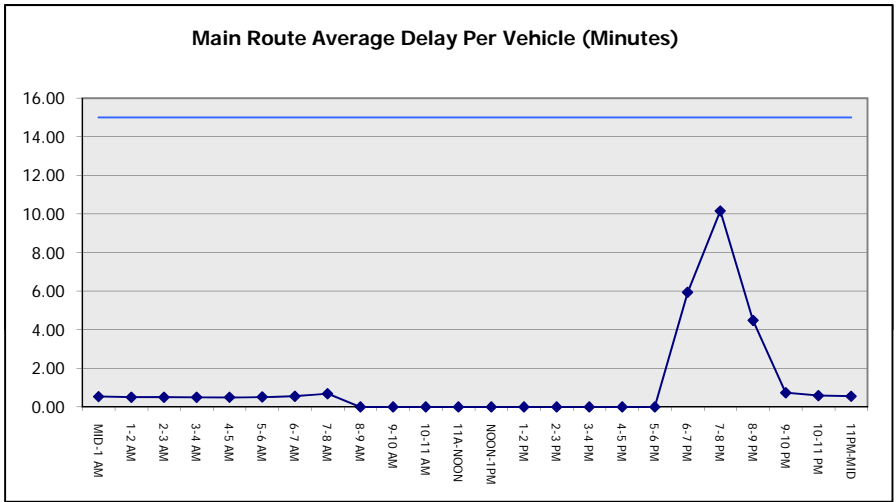
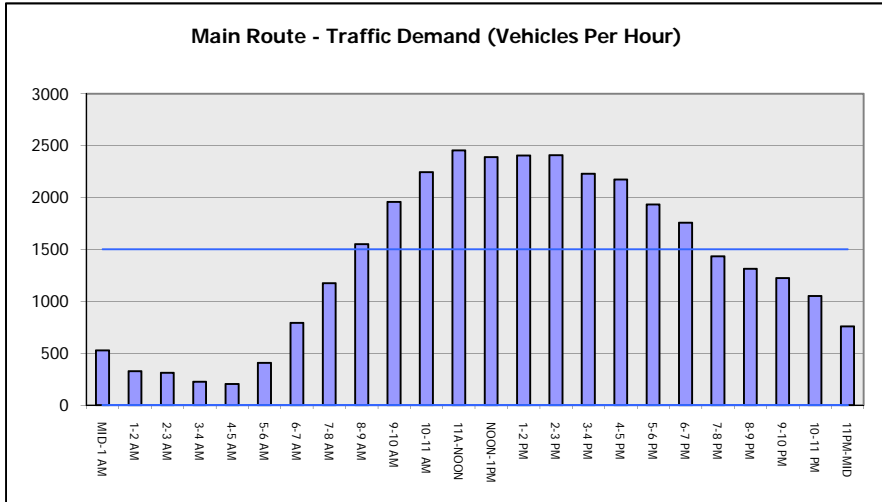
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$9,848
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>NIGHTTIME 2 LANE 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**

SATURDAY 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		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	483	0.0	288	0.0	1500	483	0	288	0.53	0	70.1	48.6	43.6	38.3	38.3
1-2 AM	302	0.0	179	0.0	1500	302	0	179	0.51	0	70.2	49.2	44.3	38.8	38.8
2-3 AM	271	0.0	161	0.0	1500	271	0	161	0.51	0	70.2	49.3	44.4	38.9	38.9
3-4 AM	181	0.0	108	0.0	1500	181	0	108	0.49	0	70.2	49.6	44.8	39.2	39.2
4-5 AM	204	0.0	121	0.0	1500	204	0	121	0.50	0	70.2	49.6	44.6	39.1	39.1
5-6 AM	330	0.0	196	0.0	1500	330	0	196	0.51	0	70.2	49.1	44.2	38.8	38.8
6-7 AM	686	0.0	408	0.0	1500	686	0	408	0.55	0	69.9	47.8	42.8	37.6	37.6
7-8 AM	1160	0.0	690	0.0	1499	1160	0	690	0.69	0	69.3	44.1	38.9	36.2	36.2
8-9 AM	1576	0.0	935	0.0	OFF	1576	0	935	0.00	0	68.7	68.7	68.7	35.0	35.0
9-10 AM	1946	0.0	1156	0.0	OFF	1946	0	1156	0.00	0	68.3	68.3	68.3	33.8	33.8
10-11 AM	2292	0.0	1360	0.0	OFF	2292	0	1360+	0.00	0	67.9	67.9	67.9	32.7	32.7
11A-NOON	2520	0.0	1496	0.0	OFF	2520	0	1496+	0.00	0	67.6	67.6	67.6	32.0	32.0
NOON-1PM	2624	0.0	1558	0.0	OFF	2624	0	1558+	0.00	0	67.5	67.5	67.5	31.7	31.7
1-2 PM	2552	0.0	1516	0.0	OFF	2552	0	1516+	0.00	0	67.6	67.6	67.6	31.9	31.9
2-3 PM	2519	0.0	1495	0.0	OFF	2519	0	1495+	0.00	0	67.6	67.6	67.6	32.0	32.0
3-4 PM	2482	0.0	1474	0.0	OFF	2482	0	1474+	0.00	0	67.6	67.6	67.6	32.2	32.2
4-5 PM	2401	0.0	1426	0.0	OFF	2401	0	1426+	0.00	0	67.8	67.8	67.8	32.4	32.4
5-6 PM	2163	0.0	1284	0.0	OFF	2163	0	1284+	0.00	0	68.1	68.1	68.1	33.2	33.2
6-7 PM	1738	0.0	1032	0.0	1499	1738	0	1032	5.97	142	68.6	12.4	30.8	34.5	34.5
7-8 PM	1418	0.0	842	0.0	1499	1418	0	842	9.07	210	69.0	9.4	30.8	35.4	35.6
8-9 PM	1319	0.0	784	0.0	1499	1319	0	784	3.00	74	69.1	20.2	32.7	35.7	35.7
9-10 PM	1196	0.0	710	0.0	1500	1196	0	710	0.70	0	69.2	43.8	38.6	36.1	36.1
10-11 PM	941	0.0	559	0.0	1500	941	0	559	0.58	0	69.6	46.9	41.9	36.9	36.9
11PM-MID	755	0.0	449	0.0	1500	755	0	449	0.56	0	69.8	47.6	42.5	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	0.0076
MAIN ROUTE WITH WORKS	0.0069
DIVERSION	0.0312

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$8,707
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

