

<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 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 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	1499	1551	0	921	1.59	18	68.8	29.8	31.3	35.0	35.0
9-10 AM	1958	0.0	1163	0.0	1500	1901	57	1219+	10.43	272	68.3	8.9	30.8	33.8	33.8
10-11 AM	2245	0.0	1332	0.0	1499	1509	735	2067+	19.16	473	67.9	6.2	30.8	32.9	29.8
11A-NOON	2455	0.0	1458	0.0	1500	1528	927	2384+	20.39	506	67.7	6.0	30.8	32.2	28.3
NOON-1PM	2390	0.0	1419	0.0	1500	1484	906	2325+	20.15	499	67.8	6.1	30.8	32.5	28.6
1-2 PM	2404	0.0	1427	0.0	1499	1504	900	2327+	20.16	499	67.8	6.1	30.8	32.4	28.6
2-3 PM	2409	0.0	1430	0.0	1499	1497	912	2343+	20.22	501	67.8	6.1	30.8	32.4	28.5
3-4 PM	2228	0.0	1323	0.0	1500	1470	758	2080+	19.21	474	67.9	6.2	30.8	32.9	29.7
4-5 PM	2175	0.0	1291	0.0	1499	1491	684	1976+	18.83	464	68.0	6.3	30.8	33.1	30.3
5-6 PM	1932	0.0	1147	0.0	1500	1465	466	1613+	17.62	433	68.3	6.5	30.8	33.8	32.0
6-7 PM	1757	0.0	1043	0.0	1499	1478	279	1322+	16.75	409	68.6	6.6	30.8	34.4	33.5
7-8 PM	1435	0.0	852	0.0	1499	1406	28	880	14.75	358	68.9	7.1	30.8	35.3	35.6
8-9 PM	1315	0.0	781	0.0	1499	1315	0	781	9.32	222	69.1	9.3	30.9	35.7	36.0
9-10 PM	1223	0.0	726	0.0	1499	1223	0	726	1.45	31	69.2	31.6	36.3	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

+ 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	0.0074
MAIN ROUTE WITH WORKS	0.0042
DIVERSION	0.0407

PIA: Personal Injury Accidents

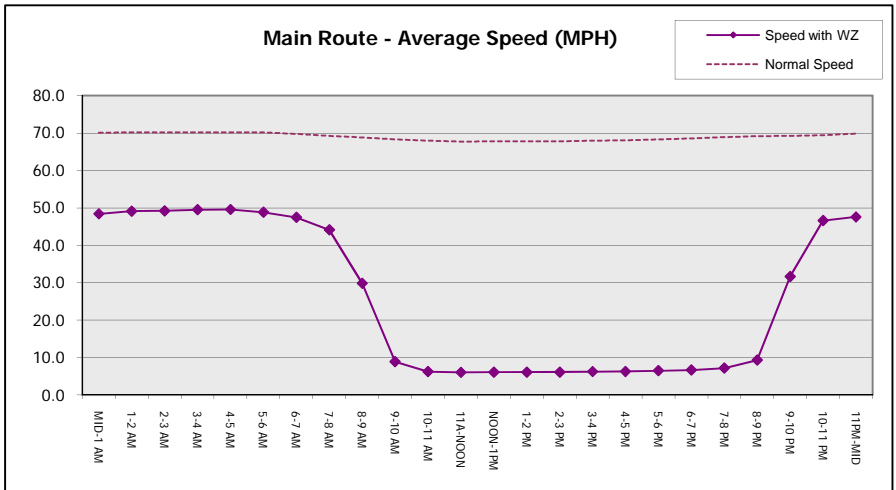
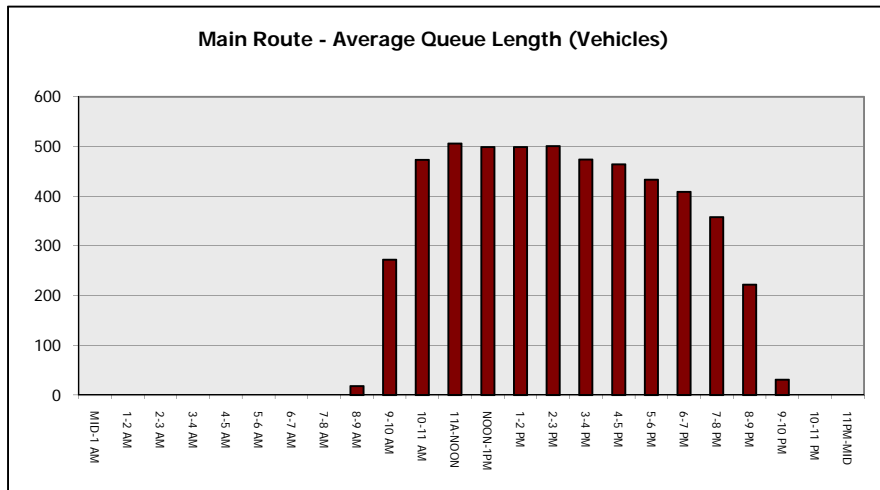
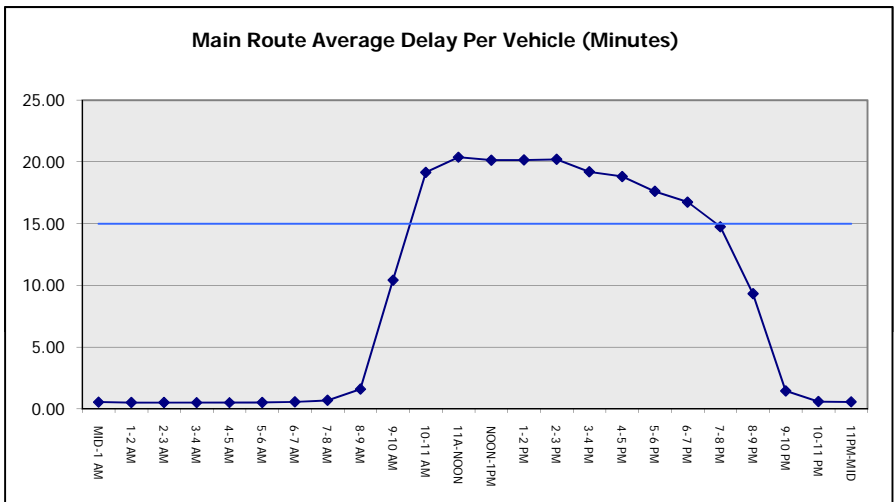
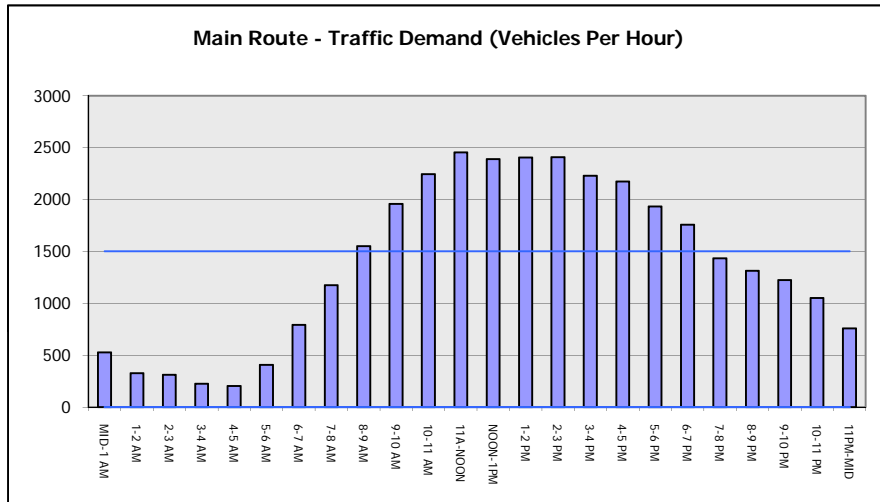
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$150,782
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) 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>CONTINUOUS (24 HOUR) 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		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	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	1499	1576	0	935	1.68	21	68.7	28.9	31.0	35.0	35.0
9-10 AM	1946	0.0	1156	0.0	1500	1884	62	1218+	10.75	277	68.3	8.7	30.8	33.8	33.8
10-11 AM	2292	0.0	1360	0.0	1499	1523	769	2129+	19.39	479	67.9	6.2	30.8	32.7	29.5
11A-NOON	2520	0.0	1496	0.0	1500	1535	985	2481+	20.80	516	67.6	6.0	30.8	32.0	27.8
NOON-1PM	2624	0.0	1558	0.0	1500	1513	1112	2670+	21.64	538	67.5	5.9	30.8	31.7	26.9
1-2 PM	2552	0.0	1516	0.0	1500	1483	1070	2586+	21.26	528	67.6	5.9	30.8	31.9	27.3
2-3 PM	2519	0.0	1495	0.0	1500	1495	1024	2519+	20.97	521	67.6	6.0	30.8	32.0	27.6
3-4 PM	2482	0.0	1474	0.0	1500	1492	990	2464+	20.73	514	67.6	6.0	30.8	32.2	27.9
4-5 PM	2401	0.0	1426	0.0	1500	1482	920	2346+	20.24	501	67.8	6.1	30.8	32.4	28.4
5-6 PM	2163	0.0	1284	0.0	1500	1457	706	1989+	18.89	466	68.1	6.3	30.8	33.2	30.2
6-7 PM	1738	0.0	1032	0.0	1500	1447	292	1323+	16.76	410	68.6	6.6	30.8	34.5	33.5
7-8 PM	1418	0.0	842	0.0	1499	1399	19	862	14.51	352	69.0	7.2	30.8	35.4	35.7
8-9 PM	1319	0.0	784	0.0	1499	1319	0	784	8.93	212	69.1	9.6	30.9	35.7	35.9
9-10 PM	1196	0.0	710	0.0	1500	1196	0	711	1.26	25	69.2	33.9	37.4	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

+ 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	0.0041
DIVERSION	0.0435

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$165,687
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)  
 CONTINUOUS (24 HOUR) 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**

