

<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                      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	381	0.0	226	0.0	3000	381	0	226	0.36	0	70.2	54.0	49.7	38.6	38.6
1-2 AM	212	0.0	126	0.0	3000	212	0	126	0.36	0	70.2	54.0	49.7	39.1	39.1
2-3 AM	146	0.0	87	0.0	3000	146	0	87	0.36	0	70.2	54.0	49.7	39.3	39.3
3-4 AM	135	0.0	81	0.0	3000	135	0	81	0.36	0	70.2	54.0	49.7	39.3	39.3
4-5 AM	174	0.0	103	0.0	3000	174	0	103	0.36	0	70.2	54.0	49.7	39.2	39.2
5-6 AM	316	0.0	187	0.0	3000	316	0	187	0.36	0	70.2	54.0	49.7	38.8	38.8
6-7 AM	1017	0.0	604	0.0	3000	1017	0	604	0.35	0	69.5	53.8	49.7	36.6	36.6
7-8 AM	2891	0.0	1717	0.0	2999	2891	0	1717+	0.94	37	67.1	38.3	42.2	30.9	30.9
8-9 AM	4280	0.0	2542	0.0	3000	4211	68	2610+	13.22	765	61.6	10.5	37.3	26.7	27.8
9-10 AM	3392	0.0	2014	0.0	2999	2679	713	2727+	22.59	1207	66.5	8.6	37.3	29.4	27.8
10-11 AM	2372	0.0	1408	0.0	2999	2346	26	1434+	13.89	745	67.8	10.1	38.1	32.5	33.5
11A-NOON	2110	0.0	1253	0.0	3000	2110	0	1253+	1.02	86	68.1	38.3	49.1	33.3	33.4
NOON-1PM	2169	0.0	1288	0.0	3000	2169	0	1288+	0.33	0	68.1	53.6	49.7	33.1	33.1
1-2 PM	2262	0.0	1344	0.0	3000	2262	0	1344+	0.33	0	67.9	53.6	49.7	32.9	32.9
2-3 PM	2294	0.0	1362	0.0	3000	2294	0	1362+	0.33	0	67.9	53.6	49.7	32.7	32.7
3-4 PM	2393	0.0	1421	0.0	3000	2393	0	1421+	0.33	0	67.8	53.4	49.5	32.4	32.4
4-5 PM	2723	0.0	1617	0.0	2999	2723	0	1617+	0.55	0	67.4	46.8	42.0	31.4	31.4
5-6 PM	3043	0.0	1807	0.0	2999	3043	0	1807+	1.07	19	66.9	36.1	37.3	30.4	30.4
6-7 PM	2781	0.0	1651	0.0	3000	2781	0	1651+	0.73	9	67.3	42.4	40.7	31.2	31.2
7-8 PM	2082	0.0	1237	0.0	3000	2082	0	1237+	0.33	0	68.1	53.6	49.7	33.4	33.4
8-9 PM	1442	0.0	856	0.0	3000	1442	0	856	0.34	0	68.9	53.8	49.7	35.3	35.3
9-10 PM	1135	0.0	674	0.0	3000	1135	0	674	0.35	0	69.3	53.8	49.7	36.3	36.3
10-11 PM	1003	0.0	595	0.0	3000	1003	0	595	0.35	0	69.5	53.8	49.7	36.7	36.7
11PM-MID	697	0.0	413	0.0	3000	697	0	413	0.36	0	69.9	53.9	49.7	37.6	37.6

+ 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	0.0092
MAIN ROUTE WITH WORKS	0.0064
DIVERSION	0.0392

PIA: Personal Injury Accidents

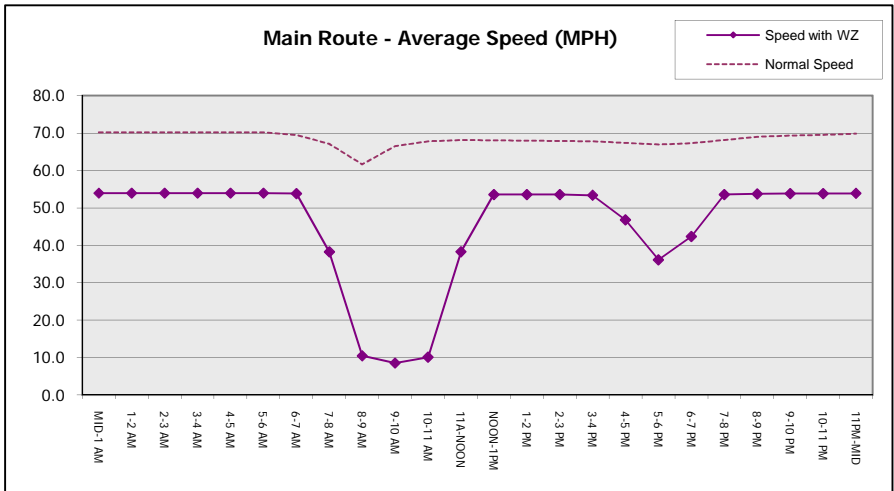
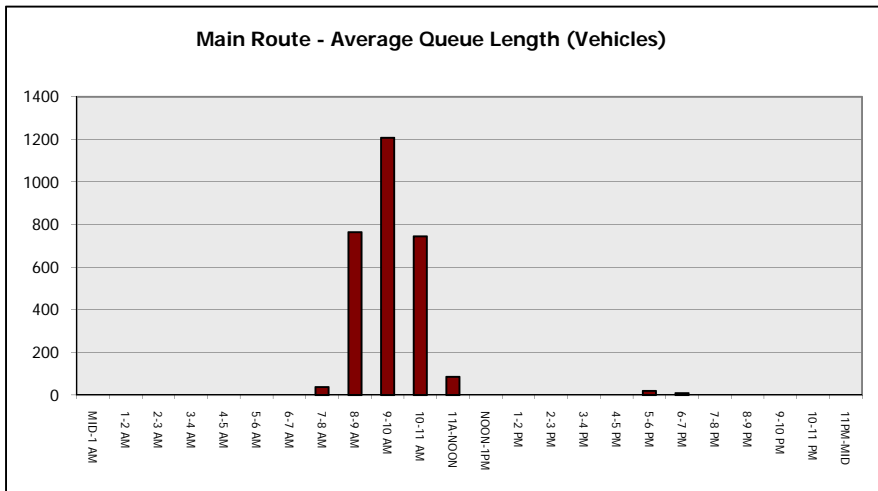
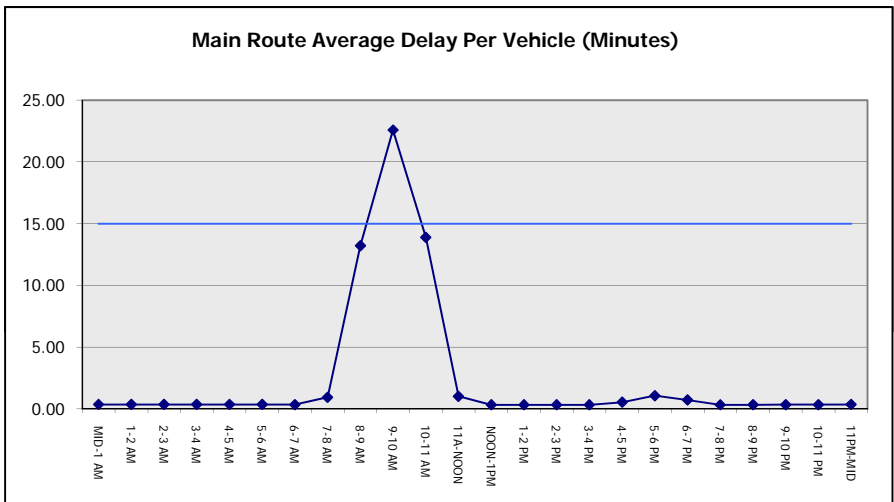
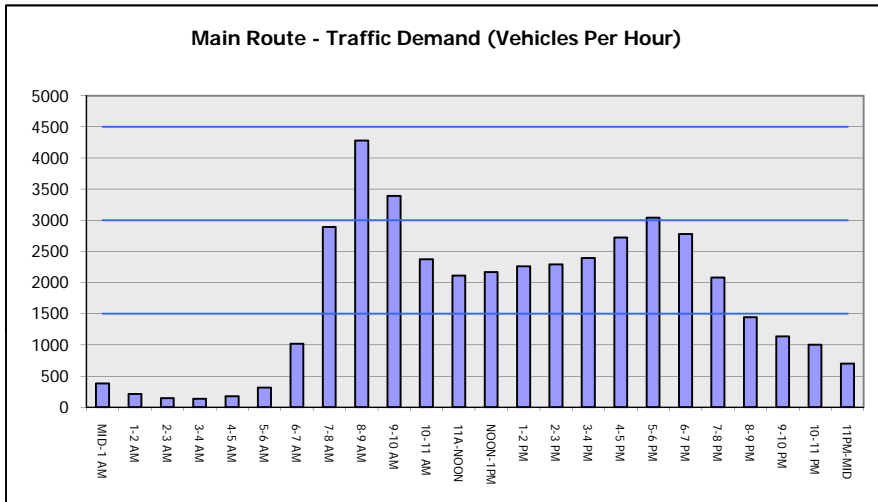
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$45,891
CONGESTED HOURS PER DAY*	1

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) CLOSURE**  
**DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR WESTBOUND DIRECTION**



<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR 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	402	0.0	239	0.0	3000	402	0	239	0.36	0	70.2	54.0	49.7	38.5	38.5
1-2 AM	239	0.0	141	0.0	3000	239	0	141	0.36	0	70.2	54.0	49.7	39.0	39.0
2-3 AM	148	0.0	88	0.0	3000	148	0	88	0.36	0	70.2	54.0	49.7	39.3	39.3
3-4 AM	127	0.0	75	0.0	3000	127	0	75	0.36	0	70.2	54.0	49.7	39.4	39.4
4-5 AM	155	0.0	92	0.0	3000	155	0	92	0.36	0	70.2	54.0	49.7	39.2	39.2
5-6 AM	295	0.0	175	0.0	3000	295	0	175	0.36	0	70.2	54.0	49.7	38.9	38.9
6-7 AM	845	0.0	502	0.0	3000	845	0	502	0.35	0	69.7	53.9	49.7	37.1	37.1
7-8 AM	1898	0.0	1127	0.0	2999	1898	0	1127	0.34	0	68.4	53.7	49.7	34.0	34.0
8-9 AM	3025	0.0	1797	0.0	2999	3025	0	1797+	0.91	12	66.9	38.8	37.6	30.5	30.5
9-10 AM	2480	0.0	1472	0.0	3000	2480	0	1472+	0.44	3	67.6	49.8	46.8	32.2	32.2
10-11 AM	1936	0.0	1150	0.0	3000	1936	0	1150	0.34	0	68.3	53.7	49.7	33.8	33.8
11A-NOON	1975	0.0	1173	0.0	3000	1975	0	1173	0.34	0	68.3	53.7	49.7	33.7	33.7
NOON-1PM	2225	0.0	1321	0.0	3000	2225	0	1321+	0.33	0	68.0	53.6	49.7	33.0	33.0
1-2 PM	2313	0.0	1374	0.0	3000	2313	0	1374+	0.33	0	67.9	53.6	49.7	32.7	32.7
2-3 PM	2371	0.0	1407	0.0	3000	2371	0	1407+	0.33	0	67.8	53.5	49.7	32.5	32.5
3-4 PM	2789	0.0	1656	0.0	2999	2789	0	1656+	0.58	0	67.3	45.8	41.0	31.2	31.2
4-5 PM	3594	0.0	2135	0.0	2999	3594	0	2135+	4.48	254	66.3	17.2	37.3	28.8	29.1
5-6 PM	4170	0.0	2476	0.0	3000	3841	329	2805+	20.17	1103	62.3	8.9	37.3	27.0	27.4
6-7 PM	3656	0.0	2171	0.0	2999	2717	939	3110+	24.60	1319	65.9	8.4	37.3	28.6	26.1
7-8 PM	2389	0.0	1419	0.0	2999	2251	138	1557+	14.82	799	67.8	9.9	38.4	32.5	33.0
8-9 PM	1588	0.0	943	0.0	3000	1588	0	943	0.77	63	68.7	42.9	49.7	34.9	35.0
9-10 PM	1286	0.0	764	0.0	3000	1286	0	764	0.35	0	69.1	53.8	49.7	35.8	35.8
10-11 PM	1080	0.0	641	0.0	3000	1080	0	641	0.35	0	69.4	53.8	49.7	36.5	36.5
11PM-MID	737	0.0	437	0.0	3000	737	0	437	0.35	0	69.8	53.9	49.7	37.5	37.5

+ 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	0.0093
MAIN ROUTE WITH WORKS	0.0063
DIVERSION	0.0404

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$59,502
CONGESTED HOURS PER DAY*	2

\*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)**  
**CONTINUOUS (24 HOUR) CLOSURE**  
**DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR EASTBOUND DIRECTION**

