

**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

**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	710	0.0	422	0.0	3000	710	0	422	0.36	0	69.9	53.9	49.7	37.6	37.6
1-2 AM	411	0.0	244	0.0	3000	411	0	244	0.36	0	70.2	54.0	49.7	38.5	38.5
2-3 AM	281	0.0	167	0.0	3000	281	0	167	0.36	0	70.2	54.0	49.7	38.9	38.9
3-4 AM	236	0.0	140	0.0	3000	236	0	140	0.36	0	70.2	54.0	49.7	39.0	39.0
4-5 AM	193	0.0	114	0.0	3000	193	0	114	0.36	0	70.2	54.0	49.7	39.2	39.2
5-6 AM	205	0.0	121	0.0	3000	205	0	121	0.36	0	70.2	54.0	49.7	39.1	39.1
6-7 AM	341	0.0	203	0.0	3000	341	0	203	0.36	0	70.2	54.0	49.7	38.7	38.7
7-8 AM	705	0.0	420	0.0	3000	705	0	420	0.36	0	69.9	53.9	49.7	37.6	37.6
8-9 AM	1281	0.0	761	0.0	3000	1281	0	761	0.35	0	69.1	53.8	49.7	35.8	35.8
9-10 AM	2011	0.0	1195	0.0	3000	2011	0	1195	0.33	0	68.2	53.7	49.7	33.6	33.6
10-11 AM	2594	0.0	1540	0.0	3000	2594	0	1540+	0.46	0	67.5	49.2	44.6	31.8	31.8
11A-NOON	2511	0.0	1491	0.0	3000	2511	0	1491+	0.41	0	67.6	50.9	46.5	32.1	32.1
NOON-1PM	2554	0.0	1517	0.0	3000	2554	0	1517+	0.44	0	67.6	49.9	45.5	31.9	31.9
1-2 PM	2668	0.0	1585	0.0	3000	2668	0	1585+	0.51	0	67.4	47.8	43.1	31.6	31.6
2-3 PM	2612	0.0	1551	0.0	3000	2612	0	1551+	0.47	0	67.5	48.8	44.3	31.8	31.8
3-4 PM	2743	0.0	1628	0.0	3000	2743	0	1628+	0.56	0	67.3	46.5	41.6	31.4	31.4
4-5 PM	2841	0.0	1687	0.0	3000	2841	0	1687+	0.62	0	67.2	44.8	39.8	31.1	31.1
5-6 PM	2815	0.0	1672	0.0	3000	2815	0	1672+	0.61	0	67.3	45.2	40.3	31.2	31.2
6-7 PM	2363	0.0	1403	0.0	3000	2363	0	1403+	0.33	0	67.8	53.5	49.7	32.5	32.5
7-8 PM	1899	0.0	1128	0.0	3000	1899	0	1128	0.34	0	68.4	53.7	49.7	34.0	34.0
8-9 PM	1383	0.0	821	0.0	3000	1383	0	821	0.34	0	69.0	53.8	49.7	35.5	35.5
9-10 PM	1141	0.0	677	0.0	3000	1141	0	677	0.35	0	69.3	53.8	49.7	36.3	36.3
10-11 PM	1031	0.0	612	0.0	3000	1031	0	612	0.35	0	69.4	53.8	49.7	36.6	36.6
11PM-MID	961	0.0	570	0.0	3000	961	0	570	0.35	0	69.6	53.8	49.7	36.8	36.8

+ 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	0.0081
MAIN ROUTE WITH WORKS	0.0057
DIVERSION	0.0335

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$4,042
CONGESTED HOURS PER DAY*	0

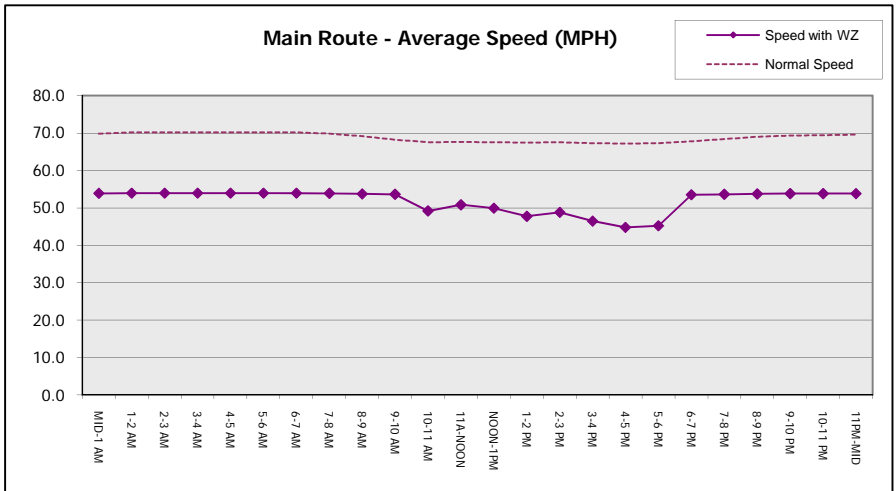
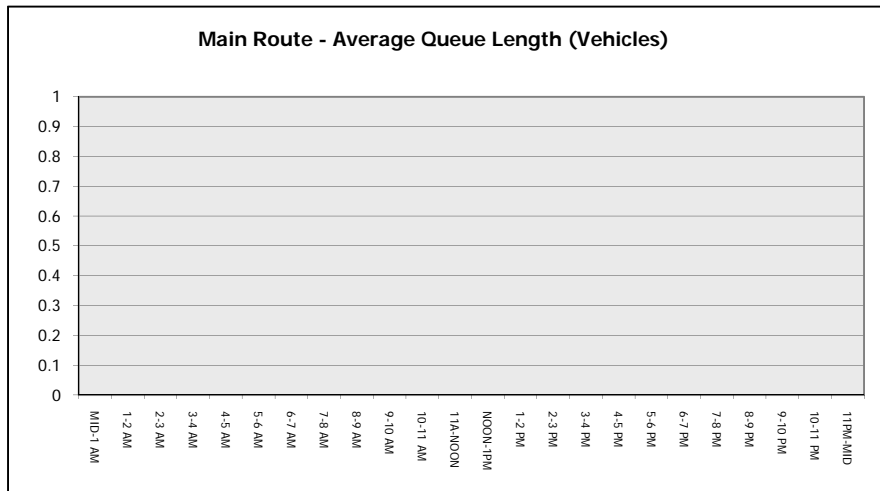
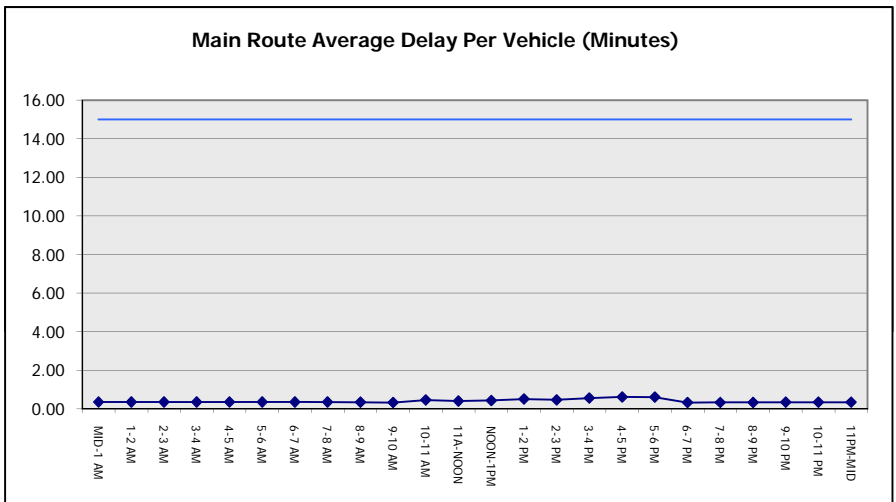
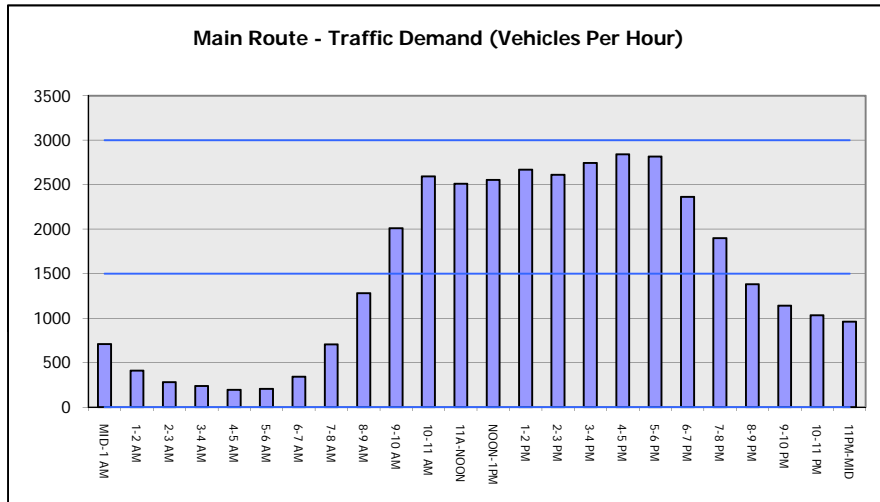
\*Delays Exceeding 15 Minutes

**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**

**SATURDAY 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**

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	713	0.0	423	0.0	3000	713	0	423	0.36	0	69.9	53.9	49.7	37.6	37.6
1-2 AM	463	0.0	275	0.0	3000	463	0	275	0.36	0	70.2	54.0	49.7	38.3	38.3
2-3 AM	281	0.0	167	0.0	3000	281	0	167	0.36	0	70.2	54.0	49.7	38.9	38.9
3-4 AM	258	0.0	154	0.0	3000	258	0	154	0.36	0	70.2	54.0	49.7	38.9	38.9
4-5 AM	198	0.0	117	0.0	3000	198	0	117	0.36	0	70.2	54.0	49.7	39.1	39.1
5-6 AM	161	0.0	95	0.0	3000	161	0	95	0.36	0	70.2	54.0	49.7	39.2	39.2
6-7 AM	311	0.0	185	0.0	3000	311	0	185	0.36	0	70.2	54.0	49.7	38.8	38.8
7-8 AM	605	0.0	359	0.0	3000	605	0	359	0.36	0	70.0	53.9	49.7	37.9	37.9
8-9 AM	1083	0.0	644	0.0	3000	1083	0	644	0.35	0	69.4	53.8	49.7	36.5	36.5
9-10 AM	1529	0.0	908	0.0	3000	1529	0	908	0.34	0	68.8	53.7	49.7	35.1	35.1
10-11 AM	1823	0.0	1082	0.0	3000	1823	0	1082	0.34	0	68.5	53.7	49.7	34.2	34.2
11A-NOON	2214	0.0	1315	0.0	3000	2214	0	1315+	0.33	0	68.0	53.6	49.7	33.0	33.0
NOON-1PM	2399	0.0	1425	0.0	3000	2399	0	1425+	0.34	0	67.8	53.3	49.4	32.4	32.4
1-2 PM	2460	0.0	1461	0.0	3000	2460	0	1461+	0.38	0	67.7	51.9	47.8	32.2	32.2
2-3 PM	2440	0.0	1449	0.0	3000	2440	0	1449+	0.36	0	67.7	52.4	48.3	32.3	32.3
3-4 PM	2687	0.0	1596	0.0	3000	2687	0	1596+	0.52	0	67.4	47.4	42.7	31.5	31.5
4-5 PM	2859	0.0	1697	0.0	3000	2859	0	1697+	0.64	0	67.2	44.5	39.6	31.0	31.0
5-6 PM	2685	0.0	1595	0.0	3000	2685	0	1595+	0.52	0	67.4	47.4	42.7	31.5	31.5
6-7 PM	2309	0.0	1371	0.0	3000	2309	0	1371+	0.33	0	67.9	53.6	49.7	32.7	32.7
7-8 PM	2002	0.0	1189	0.0	3000	2002	0	1189	0.33	0	68.2	53.7	49.7	33.7	33.7
8-9 PM	1584	0.0	941	0.0	3000	1584	0	941	0.34	0	68.7	53.7	49.7	34.9	34.9
9-10 PM	1313	0.0	780	0.0	3000	1313	0	780	0.35	0	69.1	53.8	49.7	35.7	35.7
10-11 PM	1375	0.0	816	0.0	3000	1375	0	816	0.34	0	69.1	53.8	49.7	35.5	35.5
11PM-MID	1825	0.0	1084	0.0	3000	1825	0	1084	0.34	0	68.5	53.7	49.7	34.2	34.2

+ 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	0.0079
MAIN ROUTE WITH WORKS	0.0056
DIVERSION	0.0326

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$3,522
CONGESTED HOURS PER DAY*	0

\*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**  
**SATURDAY EASTBOUND DIRECTION**

