

<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>AUGUST</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	298	0.0	177	0.0	3000	298	0	177	0.36	0	70.2	54.0	49.7	38.8	38.8
1-2 AM	209	0.0	125	0.0	3000	209	0	125	0.36	0	70.2	54.0	49.7	39.1	39.1
2-3 AM	176	0.0	105	0.0	3000	176	0	105	0.36	0	70.2	54.0	49.7	39.2	39.2
3-4 AM	184	0.0	110	0.0	3000	184	0	110	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	339	0.0	202	0.0	3000	339	0	202	0.36	0	70.2	54.0	49.7	38.7	38.7
5-6 AM	1197	0.0	710	0.0	3000	1197	0	710	0.35	0	69.2	53.8	49.7	36.1	36.1
6-7 AM	3136	0.0	1863	0.0	2999	3136	0	1863+	1.31	63	66.8	33.2	39.2	30.2	30.2
7-8 AM	4204	0.0	2497	0.0	3000	4097	107	2604+	14.94	842	62.2	9.9	37.3	26.9	27.9
8-9 AM	3250	0.0	1930	0.0	2999	2647	603	2533+	21.68	1157	66.7	8.7	37.3	29.8	28.8
9-10 AM	2522	0.0	1497	0.0	2999	2522	0	1497+	14.95	791	67.6	9.7	37.3	32.0	33.3
10-11 AM	2276	0.0	1352	0.0	2999	2276	0	1352+	2.13	193	67.9	27.8	45.6	32.8	33.0
11A-NOON	2308	0.0	1371	0.0	3000	2308	0	1371+	0.33	0	67.9	53.6	49.7	32.7	32.7
NOON-1PM	2408	0.0	1429	0.0	3000	2408	0	1429+	0.34	0	67.8	53.1	49.1	32.4	32.4
1-2 PM	2433	0.0	1445	0.0	3000	2433	0	1445+	0.36	0	67.7	52.5	48.5	32.3	32.3
2-3 PM	2514	0.0	1493	0.0	3000	2514	0	1493+	0.41	0	67.6	50.7	46.5	32.0	32.0
3-4 PM	2764	0.0	1642	0.0	2999	2764	0	1642+	0.57	0	67.3	46.1	41.2	31.3	31.3
4-5 PM	3025	0.0	1797	0.0	2999	3025	0	1797+	0.92	11	66.9	38.5	37.3	30.5	30.5
5-6 PM	2811	0.0	1669	0.0	3000	2811	0	1669+	0.69	5	67.3	43.3	40.4	31.2	31.2
6-7 PM	1990	0.0	1181	0.0	3000	1990	0	1181	0.33	0	68.2	53.7	49.7	33.7	33.7
7-8 PM	1488	0.0	884	0.0	3000	1488	0	884	0.34	0	68.9	53.7	49.7	35.2	35.2
8-9 PM	1312	0.0	780	0.0	3000	1312	0	780	0.35	0	69.1	53.8	49.7	35.7	35.7
9-10 PM	1124	0.0	668	0.0	3000	1124	0	668	0.35	0	69.4	53.8	49.7	36.3	36.3
10-11 PM	850	0.0	504	0.0	3000	850	0	504	0.35	0	69.7	53.8	49.7	37.1	37.1
11PM-MID	556	0.0	330	0.0	3000	556	0	330	0.36	0	70.0	53.9	49.7	38.1	38.1

+ 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	0.0097
MAIN ROUTE WITH WORKS	0.0067
DIVERSION	0.0409

PIA: Personal Injury Accidents

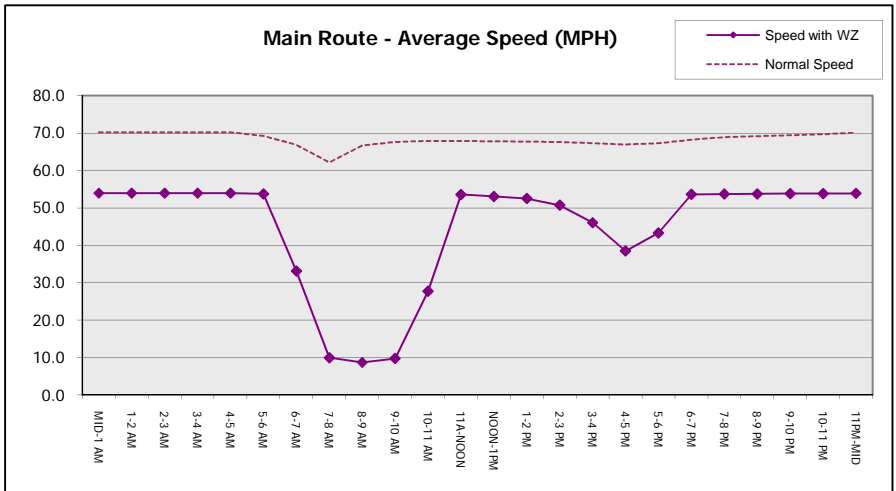
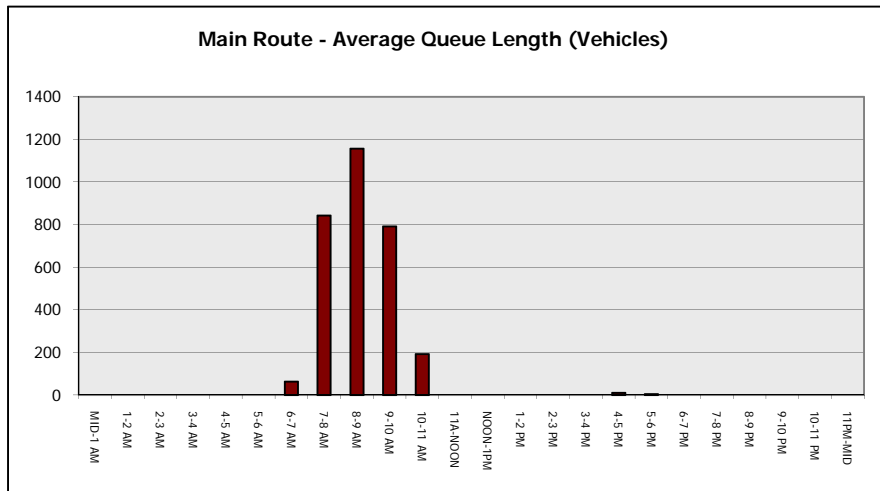
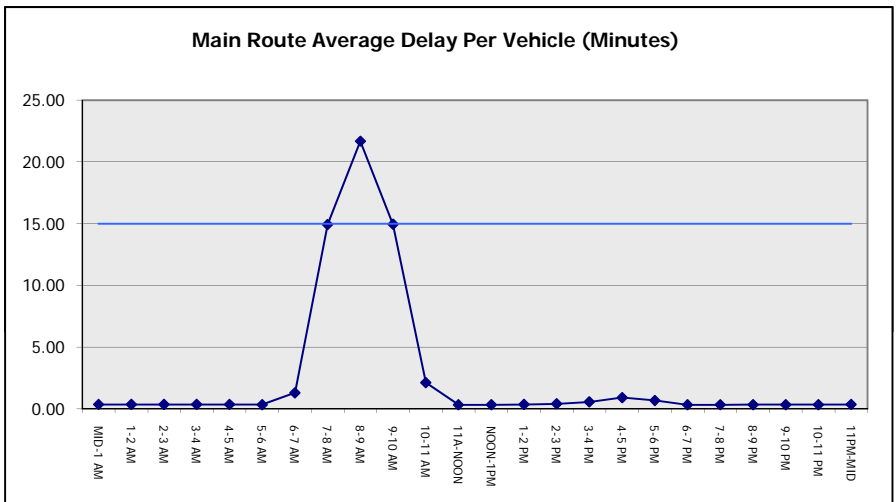
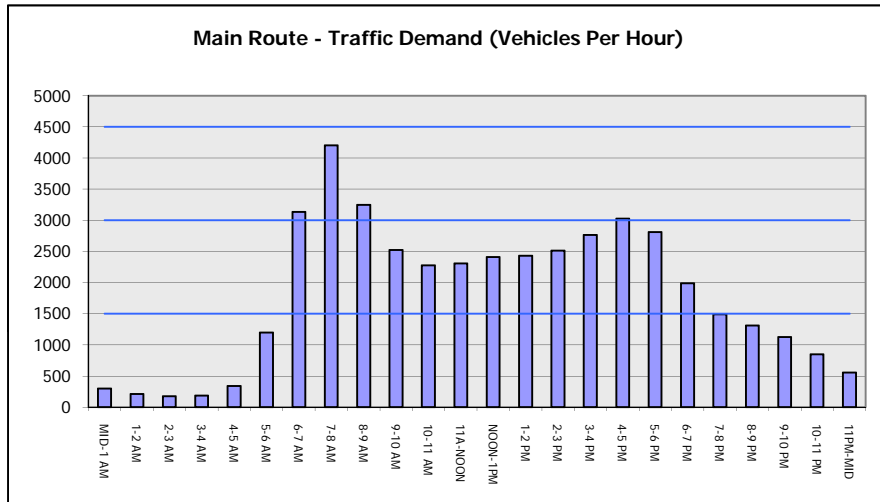
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$46,556
CONGESTED HOURS PER DAY*	1

\*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**

**AUGUST**  
 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>AUGUST</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			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	279	0.0	165	0.0	3000	279	0	165	0.36	0	70.2	54.0	49.7	38.9	38.9
1-2 AM	180	0.0	107	0.0	3000	180	0	107	0.36	0	70.2	54.0	49.7	39.2	39.2
2-3 AM	157	0.0	93	0.0	3000	157	0	93	0.36	0	70.2	54.0	49.7	39.2	39.2
3-4 AM	154	0.0	91	0.0	3000	154	0	91	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	322	0.0	191	0.0	3000	322	0	191	0.36	0	70.2	54.0	49.7	38.8	38.8
5-6 AM	878	0.0	521	0.0	3000	878	0	521	0.35	0	69.6	53.8	49.7	37.1	37.1
6-7 AM	1990	0.0	1182	0.0	3000	1990	0	1182	0.33	0	68.2	53.7	49.7	33.7	33.7
7-8 AM	2915	0.0	1731	0.0	3000	2915	0	1731+	0.67	0	67.1	43.6	38.6	30.9	30.9
8-9 AM	2453	0.0	1457	0.0	3000	2453	0	1457+	0.37	0	67.7	52.1	47.9	32.2	32.2
9-10 AM	2048	0.0	1216	0.0	3000	2048	0	1216+	0.33	0	68.2	53.7	49.7	33.5	33.5
10-11 AM	2157	0.0	1281	0.0	3000	2157	0	1281+	0.33	0	68.1	53.6	49.7	33.2	33.2
11A-NOON	2430	0.0	1443	0.0	3000	2430	0	1443+	0.36	0	67.7	52.6	48.6	32.4	32.4
NOON-1PM	2513	0.0	1493	0.0	3000	2513	0	1493+	0.41	0	67.6	50.8	46.5	32.0	32.0
1-2 PM	2573	0.0	1528	0.0	2999	2573	0	1528+	0.45	0	67.6	49.6	45.1	31.9	31.9
2-3 PM	2991	0.0	1776	0.0	2999	2991	0	1776+	0.92	16	67.0	38.6	38.4	30.6	30.6
3-4 PM	3685	0.0	2188	0.0	3000	3685	0	2188+	6.69	373	65.7	14.0	37.3	28.5	29.1
4-5 PM	4062	0.0	2412	0.0	3000	3654	408	2820+	21.63	1172	63.1	8.7	37.3	27.3	27.4
5-6 PM	3727	0.0	2213	0.0	2999	2786	942	3155+	24.81	1332	65.4	8.4	37.3	28.4	25.9
6-7 PM	2400	0.0	1425	0.0	2999	2226	175	1600+	15.06	812	67.8	9.8	38.2	32.4	32.8
7-8 PM	1719	0.0	1021	0.0	3000	1719	0	1021	0.85	73	68.6	41.5	49.7	34.5	34.6
8-9 PM	1513	0.0	899	0.0	3000	1513	0	899	0.34	0	68.9	53.7	49.7	35.1	35.1
9-10 PM	1204	0.0	715	0.0	3000	1204	0	715	0.35	0	69.2	53.8	49.7	36.1	36.1
10-11 PM	832	0.0	494	0.0	3000	832	0	494	0.35	0	69.7	53.9	49.7	37.2	37.2
11PM-MID	507	0.0	301	0.0	3000	507	0	301	0.36	0	70.1	54.0	49.7	38.2	38.2

+ 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	0.0097
MAIN ROUTE WITH WORKS	0.0066
DIVERSION	0.0424

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$61,587
CONGESTED HOURS PER DAY*	3

\*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**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

