

<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>MAY</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	243	0.0	144	0.0	1500	243	0	144	0.50	0	70.2	49.4	44.5	39.0	39.0
1-2 AM	165	0.0	98	0.0	1500	165	0	98	0.49	0	70.2	49.7	44.8	39.2	39.2
2-3 AM	150	0.0	89	0.0	1500	150	0	89	0.49	0	70.2	49.7	44.9	39.3	39.3
3-4 AM	177	0.0	105	0.0	1500	177	0	105	0.49	0	70.2	49.6	44.8	39.2	39.2
4-5 AM	310	0.0	184	0.0	1500	310	0	184	0.51	0	70.2	49.2	44.2	38.8	38.8
5-6 AM	1122	0.0	667	0.0	1499	1122	0	667	0.78	0	69.4	42.2	36.9	36.3	36.3
6-7 AM	3103	0.0	1843	0.0	1499	2267	836	2679+	19.56	520	66.9	6.3	30.8	30.2	26.6
7-8 AM	3548	0.0	2106	0.0	1500	1531	2018	4124+	31.96	810	66.3	5.0	30.8	28.9	19.4
8-9 AM	2682	0.0	1593	0.0	1500	1218	1464	3057+	24.09	607	67.4	5.7	30.8	31.5	24.8
9-10 AM	2116	0.0	1257	0.0	1500	1430	686	1943+	18.73	462	68.1	6.3	30.8	33.3	30.4
10-11 AM	2030	0.0	1205	0.0	1499	1498	532	1737+	18.01	443	68.2	6.4	30.8	33.5	31.4
11A-NOON	2066	0.0	1226	0.0	1499	1509	556	1783+	18.16	447	68.2	6.4	30.8	33.4	31.2
NOON-1PM	2241	0.0	1331	0.0	1499	1526	715	2046+	19.08	471	67.9	6.2	30.8	32.9	29.9
1-2 PM	2251	0.0	1337	0.0	1500	1500	751	2088+	19.24	475	67.9	6.2	30.8	32.9	29.7
2-3 PM	2332	0.0	1384	0.0	1500	1517	815	2199+	19.66	486	67.8	6.1	30.8	32.6	29.2
3-4 PM	2549	0.0	1513	0.0	1499	1543	1006	2520+	20.97	521	67.6	6.0	30.8	32.0	27.6
4-5 PM	2771	0.0	1645	0.0	1500	1537	1234	2878+	22.78	568	67.3	5.8	30.8	31.3	25.7
5-6 PM	2532	0.0	1504	0.0	1500	1429	1103	2607+	21.41	533	67.6	5.9	30.8	32.0	27.1
6-7 PM	1988	0.0	1180	0.0	1500	1418	570	1751+	18.08	445	68.2	6.4	30.8	33.7	31.4
7-8 PM	1477	0.0	877	0.0	1500	1412	65	942	15.45	376	68.9	7.0	30.8	35.2	35.3
8-9 PM	1287	0.0	764	0.0	1499	1287	0	764	9.88	239	69.1	9.0	31.2	35.8	36.1
9-10 PM	1097	0.0	652	0.0	1500	1097	0	652	1.06	21	69.4	36.9	39.5	36.4	36.4
10-11 PM	761	0.0	452	0.0	1500	761	0	452	0.56	0	69.8	47.6	42.5	37.4	37.4
11PM-MID	460	0.0	273	0.0	1500	460	0	273	0.53	0	70.2	48.6	43.7	38.3	38.3

+ 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	0.0088
MAIN ROUTE WITH WORKS	0.0042
DIVERSION	0.0552

PIA: Personal Injury Accidents

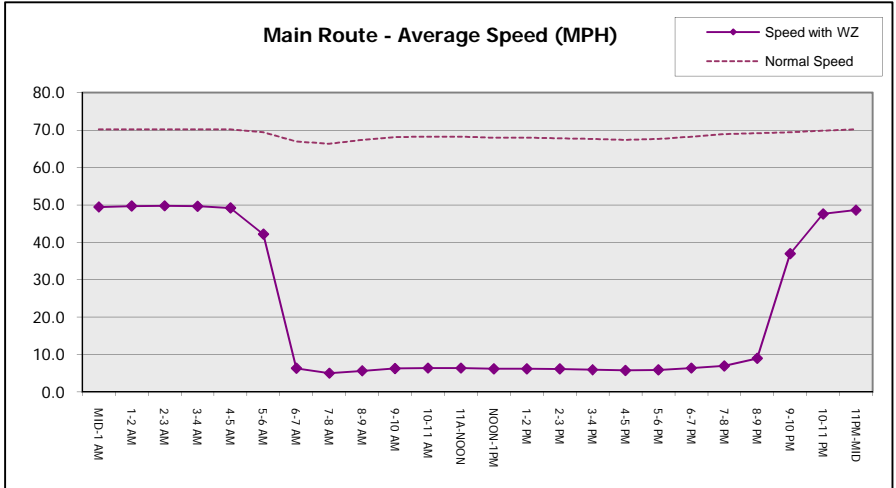
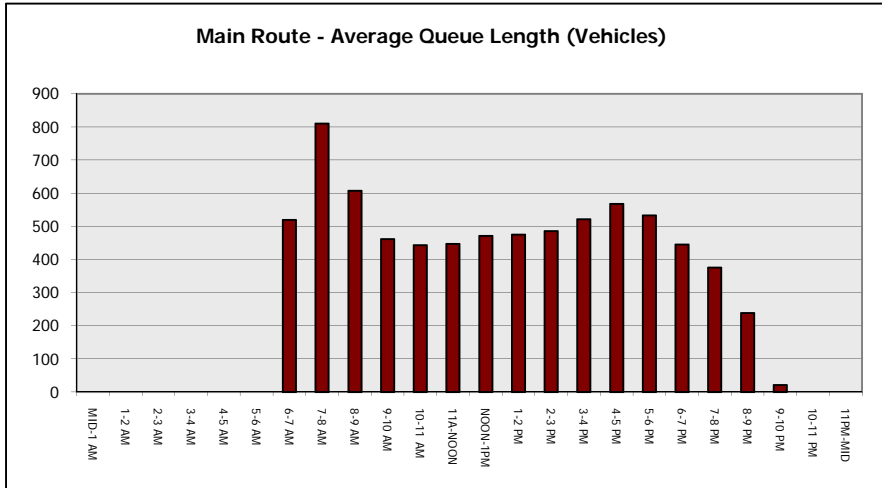
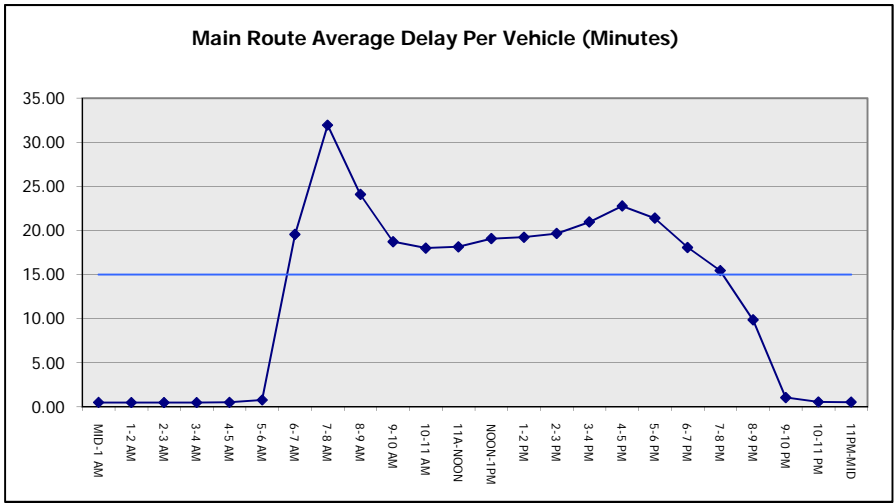
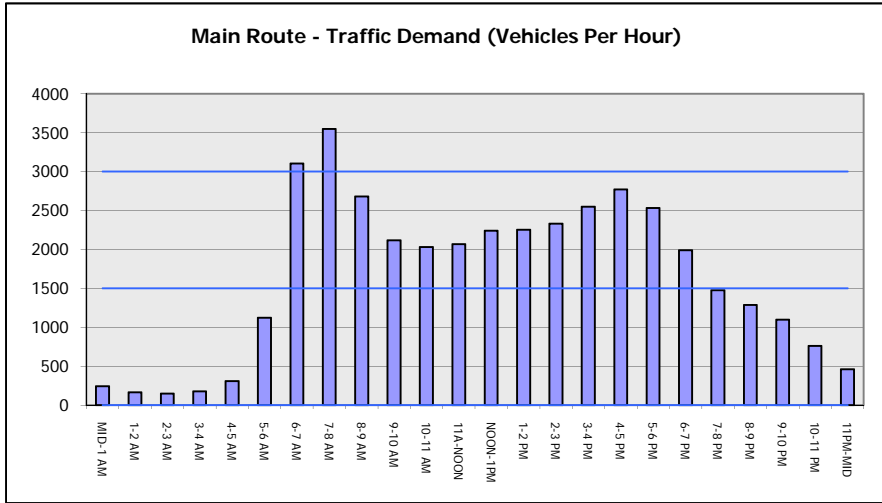
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$207,457
CONGESTED HOURS PER DAY*	14

\*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**

**MAY**  
 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) 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>MAY</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING				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	249	0.0	148	0.0	1500	249	0	148	0.50	0	70.2	49.4	44.5	39.0	39.0
1-2 AM	168	0.0	99	0.0	1500	168	0	99	0.49	0	70.2	49.7	44.8	39.2	39.2
2-3 AM	142	0.0	85	0.0	1500	142	0	85	0.49	0	70.2	49.7	44.9	39.3	39.3
3-4 AM	145	0.0	87	0.0	1500	145	0	87	0.49	0	70.2	49.7	44.9	39.3	39.3
4-5 AM	306	0.0	182	0.0	1500	306	0	182	0.51	0	70.2	49.2	44.3	38.8	38.8
5-6 AM	864	0.0	513	0.0	1500	864	0	513	0.57	0	69.7	47.2	42.2	37.1	37.1
6-7 AM	2000	0.0	1188	0.0	1499	2000	0	1188	6.26	189	68.2	12.7	30.8	33.7	33.8
7-8 AM	2803	0.0	1665	0.0	1499	1594	1209	2874+	22.77	568	67.3	5.8	30.8	31.2	25.8
8-9 AM	2321	0.0	1378	0.0	1500	1375	946	2324+	20.22	502	67.9	6.1	30.8	32.7	28.5
9-10 AM	1933	0.0	1148	0.0	1500	1456	476	1624+	17.66	433	68.3	6.5	30.8	33.8	32.0
10-11 AM	2003	0.0	1190	0.0	1499	1519	483	1673+	17.81	437	68.2	6.5	30.8	33.6	31.8
11A-NOON	2252	0.0	1337	0.0	1499	1538	714	2051+	19.10	472	67.9	6.2	30.8	32.9	29.9
NOON-1PM	2349	0.0	1395	0.0	1500	1513	837	2231+	19.78	489	67.8	6.1	30.8	32.6	29.0
1-2 PM	2437	0.0	1447	0.0	1500	1522	915	2362+	20.30	503	67.7	6.1	30.8	32.3	28.4
2-3 PM	2840	0.0	1687	0.0	1500	1612	1228	2915+	22.99	575	67.2	5.7	30.8	31.1	25.6
3-4 PM	3505	0.0	2081	0.0	1500	1724	1782	3863+	29.70	752	66.4	5.2	30.8	29.1	20.7
4-5 PM	3880	0.0	2304	0.0	1499	1613	2267	4571+	36.65	936	64.3	4.8	30.8	27.9	17.3
5-6 PM	3427	0.0	2035	0.0	1499	1224	2203	4238+	33.19	844	66.4	5.0	30.8	29.2	18.9
6-7 PM	2240	0.0	1330	0.0	1499	1250	990	2320+	20.42	510	67.9	6.1	30.8	32.9	28.4
7-8 PM	1601	0.0	951	0.0	1499	1428	173	1124	16.12	393	68.7	6.8	30.8	34.8	34.5
8-9 PM	1386	0.0	824	0.0	1499	1386	0	824	13.56	328	69.0	7.5	30.8	35.5	35.9
9-10 PM	1096	0.0	651	0.0	1499	1096	0	651	2.33	94	69.4	24.6	37.4	36.4	36.5
10-11 PM	794	0.0	472	0.0	1500	794	0	472	0.56	0	69.7	47.4	42.4	37.3	37.3
11PM-MID	473	0.0	280	0.0	1500	473	0	280	0.53	0	70.2	48.6	43.6	38.3	38.3

+ 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	0.0092
MAIN ROUTE WITH WORKS	0.0042
DIVERSION	0.0597

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$242,176
CONGESTED HOURS PER DAY*	13

\*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**

**MAY**  
 Analyzed for 2009  
 Construction Season

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

