

<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>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

**SUNDAY 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	713	0.0	423	0.0	1500	713	0	423	0.56	0	69.9	47.8	42.7	37.6	37.6
1-2 AM	484	0.0	288	0.0	1500	484	0	288	0.53	0	70.1	48.6	43.6	38.3	38.3
2-3 AM	300	0.0	178	0.0	1500	300	0	178	0.51	0	70.2	49.2	44.3	38.8	38.8
3-4 AM	250	0.0	149	0.0	1500	250	0	149	0.50	0	70.2	49.4	44.5	39.0	39.0
4-5 AM	171	0.0	102	0.0	1500	171	0	102	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	125	0.0	73	0.0	1500	125	0	73	0.49	0	70.2	49.9	45.0	39.4	39.4
6-7 AM	184	0.0	109	0.0	1500	184	0	109	0.49	0	70.2	49.6	44.8	39.2	39.2
7-8 AM	383	0.0	227	0.0	1500	383	0	227	0.52	0	70.2	48.9	44.0	38.6	38.6
8-9 AM	470	0.0	278	0.0	1500	470	0	278	0.53	0	70.2	48.6	43.6	38.3	38.3
9-10 AM	754	0.0	448	0.0	1500	754	0	448	0.56	0	69.8	47.6	42.5	37.4	37.4
10-11 AM	1266	0.0	752	0.0	1499	1266	0	752	0.78	0	69.2	42.1	36.8	35.9	35.9
11A-NOON	1747	0.0	1038	0.0	1499	1747	0	1038	4.00	99	68.6	16.7	30.8	34.4	34.5
NOON-1PM	2052	0.0	1218	0.0	1500	1707	345	1563+	16.61	411	68.2	6.7	30.8	33.5	32.3
1-2 PM	2236	0.0	1328	0.0	1499	1520	717	2044+	19.08	471	67.9	6.2	30.8	32.9	29.9
2-3 PM	2114	0.0	1256	0.0	1500	1479	635	1891+	18.53	456	68.1	6.3	30.8	33.3	30.7
3-4 PM	2138	0.0	1269	0.0	1499	1506	632	1901+	18.57	457	68.1	6.3	30.8	33.2	30.6
4-5 PM	2173	0.0	1290	0.0	1500	1504	669	1960+	18.77	463	68.1	6.3	30.8	33.1	30.4
5-6 PM	2126	0.0	1263	0.0	1500	1491	636	1899+	18.56	457	68.1	6.3	30.8	33.2	30.7
6-7 PM	2026	0.0	1202	0.0	1500	1484	542	1744+	18.04	443	68.2	6.4	30.8	33.5	31.4
7-8 PM	1872	0.0	1111	0.0	1499	1477	395	1506+	17.29	424	68.4	6.5	30.8	34.0	32.6
8-9 PM	1536	0.0	912	0.0	1500	1443	93	1006	15.75	383	68.8	6.9	30.8	35.0	35.0
9-10 PM	1234	0.0	732	0.0	1499	1234	0	732	9.76	243	69.2	9.1	32.1	36.0	36.2
10-11 PM	938	0.0	557	0.0	1500	938	0	557	0.75	8	69.6	42.8	41.9	36.9	36.9
11PM-MID	653	0.0	388	0.0	1500	653	0	388	0.55	0	69.9	47.9	42.9	37.8	37.8

+ 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	0.0062
MAIN ROUTE WITH WORKS	0.0036
DIVERSION	0.0328

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$117,253
CONGESTED HOURS PER DAY*	9

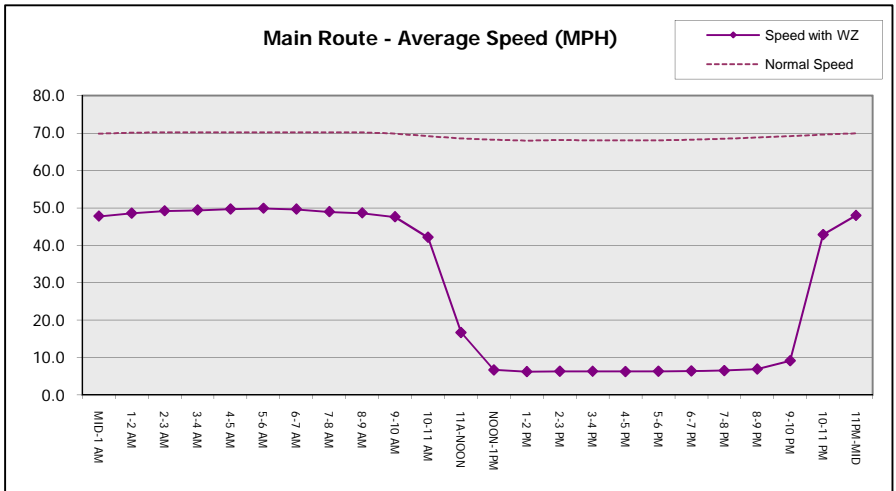
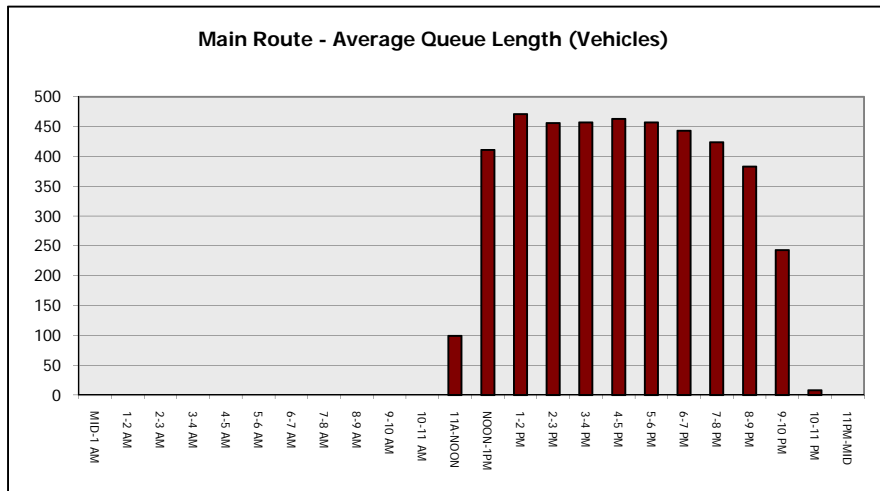
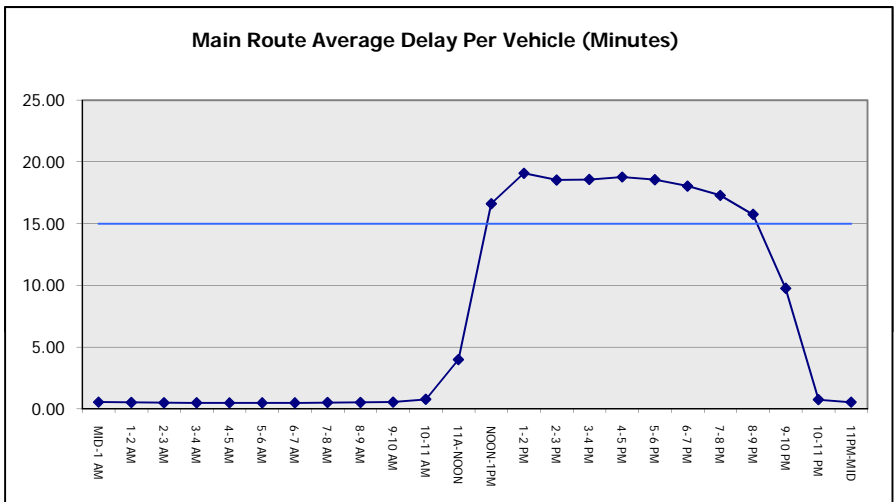
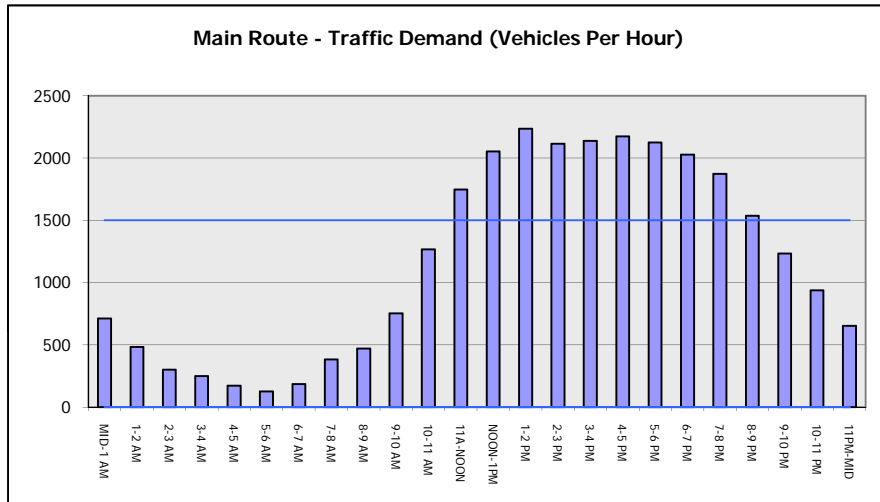
\*Delays Exceeding 15 Minutes

**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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY 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>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	1591	0.0	945	0.0	1499	1591	0	945	2.46	40	68.7	22.8	30.8	34.9	34.9
1-2 AM	651	0.0	387	0.0	1500	651	0	387	0.66	5	69.9	45.1	42.9	37.8	37.8
2-3 AM	348	0.0	207	0.0	1500	348	0	207	0.52	0	70.2	49.1	44.1	38.7	38.7
3-4 AM	285	0.0	168	0.0	1500	285	0	168	0.51	0	70.2	49.2	44.3	38.9	38.9
4-5 AM	188	0.0	112	0.0	1500	188	0	112	0.50	0	70.2	49.6	44.7	39.2	39.2
5-6 AM	148	0.0	88	0.0	1500	148	0	88	0.49	0	70.2	49.7	44.9	39.3	39.3
6-7 AM	216	0.0	128	0.0	1500	216	0	128	0.50	0	70.2	49.5	44.6	39.1	39.1
7-8 AM	358	0.0	212	0.0	1500	358	0	212	0.52	0	70.2	49.0	44.0	38.6	38.6
8-9 AM	743	0.0	442	0.0	1500	743	0	442	0.56	0	69.8	47.6	42.6	37.4	37.4
9-10 AM	1151	0.0	683	0.0	1499	1151	0	683	0.69	0	69.3	44.2	39.0	36.2	36.2
10-11 AM	1682	0.0	998	0.0	1499	1682	0	998	2.79	61	68.6	21.1	30.8	34.6	34.7
11A-NOON	2089	0.0	1240	0.0	1500	1781	308	1548+	15.30	383	68.1	7.0	30.8	33.3	32.3
NOON-1PM	2303	0.0	1368	0.0	1500	1528	775	2143+	19.44	480	67.9	6.2	30.8	32.7	29.4
1-2 PM	2409	0.0	1430	0.0	1500	1513	896	2326+	20.15	499	67.8	6.1	30.8	32.4	28.6
2-3 PM	2410	0.0	1432	0.0	1500	1499	911	2343+	20.22	501	67.8	6.1	30.8	32.4	28.5
3-4 PM	2450	0.0	1455	0.0	1500	1510	940	2394+	20.43	507	67.7	6.0	30.8	32.3	28.3
4-5 PM	2587	0.0	1536	0.0	1499	1520	1067	2603+	21.33	530	67.5	5.9	30.8	31.9	27.2
5-6 PM	2407	0.0	1429	0.0	1500	1458	949	2379+	20.38	505	67.8	6.0	30.8	32.4	28.3
6-7 PM	2079	0.0	1235	0.0	1500	1450	630	1864+	18.45	454	68.1	6.3	30.8	33.4	30.8
7-8 PM	1760	0.0	1045	0.0	1499	1460	300	1345+	16.82	411	68.6	6.6	30.8	34.3	33.4
8-9 PM	1371	0.0	814	0.0	1499	1348	23	837	13.96	339	69.1	7.3	30.8	35.6	35.8
9-10 PM	998	0.0	592	0.0	1499	998	0	592	1.76	72	69.5	28.9	39.0	36.7	36.8
10-11 PM	714	0.0	424	0.0	1500	714	0	424	0.56	0	69.9	47.8	42.7	37.6	37.6
11PM-MID	510	0.0	302	0.0	1500	510	0	302	0.53	0	70.1	48.4	43.5	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	0.0070
MAIN ROUTE WITH WORKS	0.0039
DIVERSION	0.0393

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$142,814
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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY EASTBOUND DIRECTION**

