

<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>AUGUST</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	532	0.0	316	0.0	1500	532	0	316	0.54	0	70.0	48.4	43.4	38.1	38.1
1-2 AM	363	0.0	216	0.0	1500	363	0	216	0.52	0	70.2	49.0	44.0	38.6	38.6
2-3 AM	347	0.0	206	0.0	1500	347	0	206	0.51	0	70.2	49.1	44.1	38.7	38.7
3-4 AM	220	0.0	131	0.0	1500	220	0	131	0.50	0	70.2	49.5	44.6	39.1	39.1
4-5 AM	299	0.0	178	0.0	1500	299	0	178	0.51	0	70.2	49.2	44.3	38.8	38.8
5-6 AM	222	0.0	132	0.0	1500	222	0	132	0.50	0	70.2	49.5	44.6	39.1	39.1
6-7 AM	399	0.0	236	0.0	1500	399	0	236	0.52	0	70.2	48.9	43.9	38.5	38.5
7-8 AM	499	0.0	296	0.0	1500	499	0	296	0.53	0	70.1	48.5	43.5	38.2	38.2
8-9 AM	748	0.0	445	0.0	1500	748	0	445	0.56	0	69.8	47.6	42.6	37.4	37.4
9-10 AM	1194	0.0	708	0.0	1499	1194	0	708	0.72	0	69.2	43.4	38.1	36.1	36.1
10-11 AM	1791	0.0	1063	0.0	1499	1791	0	1063	4.64	120	68.5	15.2	30.8	34.3	34.3
11A-NOON	2011	0.0	1194	0.0	1499	1658	354	1547+	16.89	416	68.2	6.6	30.8	33.6	32.4
NOON-1PM	2286	0.0	1357	0.0	1499	1538	749	2106+	19.30	477	67.9	6.2	30.8	32.8	29.6
1-2 PM	2295	0.0	1362	0.0	1500	1497	798	2160+	19.51	482	67.9	6.1	30.8	32.7	29.4
2-3 PM	2356	0.0	1399	0.0	1499	1507	849	2248+	19.84	491	67.8	6.1	30.8	32.5	28.9
3-4 PM	2240	0.0	1330	0.0	1500	1479	762	2092+	19.25	475	67.9	6.2	30.8	32.9	29.7
4-5 PM	2153	0.0	1279	0.0	1499	1487	666	1945+	18.72	461	68.1	6.3	30.8	33.2	30.4
5-6 PM	2048	0.0	1216	0.0	1500	1484	564	1780+	18.16	447	68.2	6.4	30.8	33.5	31.2
6-7 PM	1888	0.0	1122	0.0	1500	1476	411	1533+	17.37	426	68.4	6.5	30.8	34.0	32.5
7-8 PM	1581	0.0	940	0.0	1500	1464	117	1057	16.01	390	68.7	6.8	30.8	34.9	34.8
8-9 PM	1405	0.0	834	0.0	1499	1405	0	834	14.34	347	69.0	7.2	30.8	35.5	35.9
9-10 PM	1157	0.0	687	0.0	1499	1157	0	687	3.92	138	69.3	17.6	35.1	36.2	36.3
10-11 PM	802	0.0	476	0.0	1500	802	0	476	0.57	0	69.7	47.4	42.4	37.3	37.3
11PM-MID	499	0.0	296	0.0	1500	499	0	296	0.53	0	70.1	48.5	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 (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	0.0065
MAIN ROUTE WITH WORKS	0.0038
DIVERSION	0.0350

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$128,434
CONGESTED HOURS PER DAY*	9

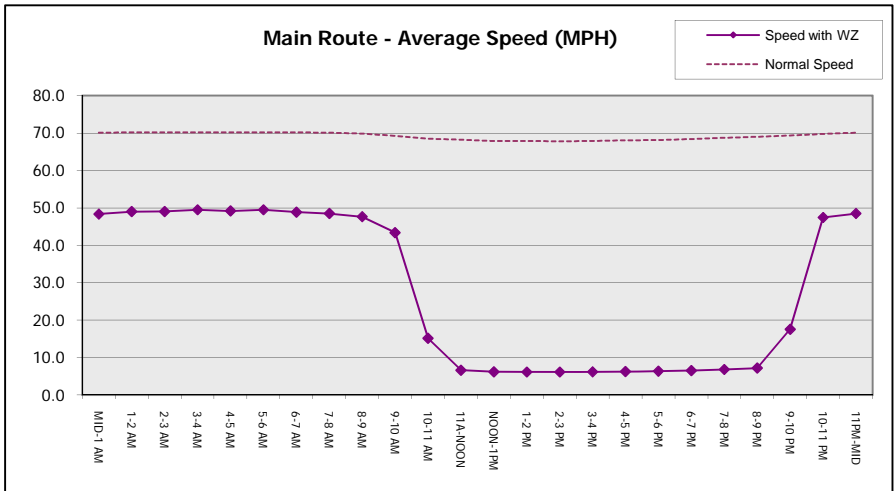
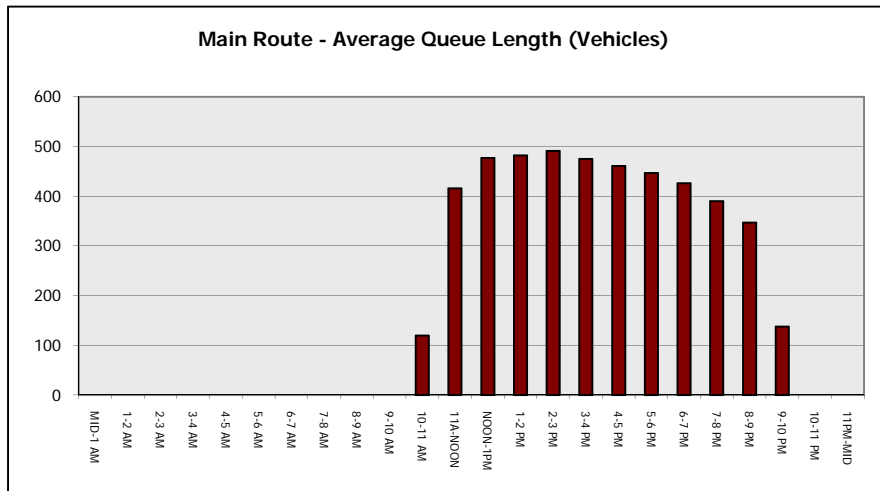
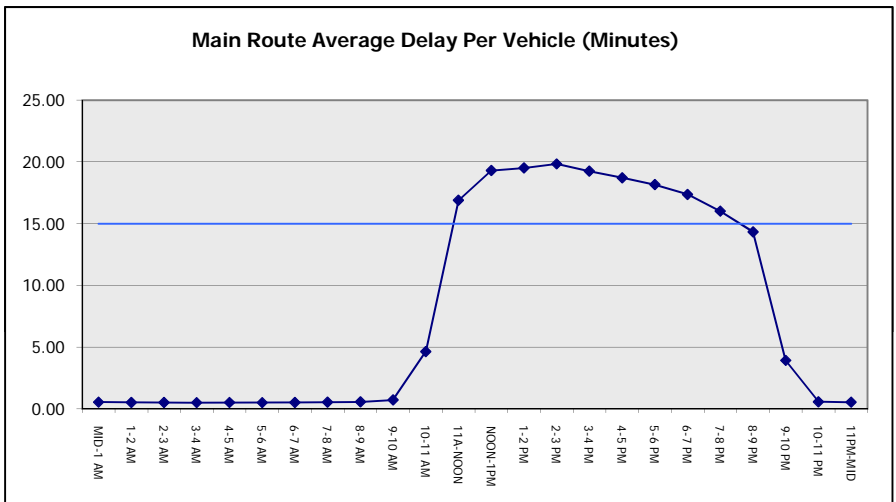
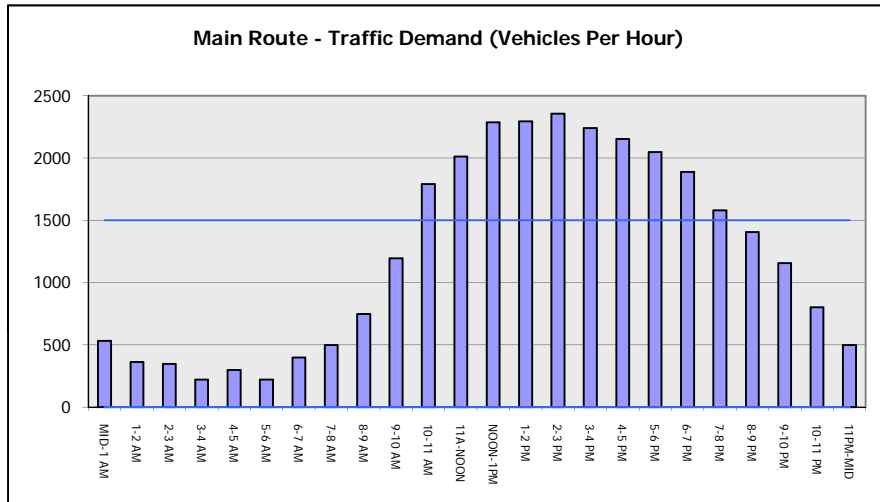
\*Delays Exceeding 15 Minutes

**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**

**AUGUST**  
 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>AUGUST</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						
	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	494	0.0	293	0.0	1500	494	0	293	0.53	0	70.1	48.5	43.5	38.3	38.3
1-2 AM	300	0.0	178	0.0	1500	300	0	178	0.51	0	70.2	49.2	44.3	38.8	38.8
2-3 AM	246	0.0	146	0.0	1500	246	0	146	0.50	0	70.2	49.4	44.5	39.0	39.0
3-4 AM	160	0.0	95	0.0	1500	160	0	95	0.49	0	70.2	49.7	44.8	39.2	39.2
4-5 AM	155	0.0	92	0.0	1500	155	0	92	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	194	0.0	115	0.0	1500	194	0	115	0.50	0	70.2	49.6	44.7	39.1	39.1
6-7 AM	377	0.0	224	0.0	1500	377	0	224	0.52	0	70.2	48.9	44.0	38.6	38.6
7-8 AM	648	0.0	384	0.0	1500	648	0	384	0.55	0	69.9	47.9	43.0	37.8	37.8
8-9 AM	1018	0.0	605	0.0	1499	1018	0	605	0.60	0	69.5	46.5	41.4	36.6	36.6
9-10 AM	1551	0.0	921	0.0	1499	1551	0	921	1.63	21	68.8	29.4	31.5	35.0	35.0
10-11 AM	1999	0.0	1187	0.0	1500	1873	126	1312+	11.50	297	68.2	8.4	30.8	33.7	33.3
11A-NOON	2157	0.0	1281	0.0	1499	1506	650	1931+	18.67	460	68.1	6.3	30.8	33.2	30.5
NOON-1PM	2233	0.0	1326	0.0	1500	1511	722	2047+	19.09	471	67.9	6.2	30.8	32.9	29.9
1-2 PM	2368	0.0	1406	0.0	1499	1521	847	2254+	19.87	492	67.8	6.1	30.8	32.5	28.9
2-3 PM	2382	0.0	1414	0.0	1500	1503	879	2292+	20.02	496	67.8	6.1	30.8	32.5	28.8
3-4 PM	2549	0.0	1514	0.0	1499	1529	1020	2534+	21.03	522	67.6	6.0	30.8	32.0	27.6
4-5 PM	2511	0.0	1491	0.0	1500	1482	1030	2521+	20.97	521	67.6	6.0	30.8	32.1	27.6
5-6 PM	2216	0.0	1316	0.0	1500	1446	770	2086+	19.24	475	68.0	6.2	30.8	33.0	29.7
6-7 PM	1830	0.0	1087	0.0	1500	1451	379	1466+	17.17	421	68.4	6.6	30.8	34.2	32.8
7-8 PM	1560	0.0	927	0.0	1499	1465	95	1022	15.88	387	68.8	6.8	30.8	35.0	35.0
8-9 PM	1321	0.0	784	0.0	1499	1321	0	784	12.39	300	69.1	7.8	30.8	35.7	36.0
9-10 PM	1025	0.0	609	0.0	1499	1025	0	609	1.48	48	69.4	31.4	39.1	36.6	36.6
10-11 PM	630	0.0	374	0.0	1500	630	0	374	0.55	0	69.9	48.0	43.0	37.8	37.8
11PM-MID	430	0.0	255	0.0	1500	430	0	255	0.53	0	70.2	48.7	43.8	38.4	38.4

+ 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	0.0068
MAIN ROUTE WITH WORKS	0.0037
DIVERSION	0.0379

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$143,065
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**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

