

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	AUGUST
	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	526	0.0	313	0.0	OFF	526	0	313	0.00	0	70.0	70.0	70.0	38.1	38.1
1-2 AM	326	0.0	194	0.0	OFF	326	0	194	0.00	0	70.2	70.2	70.2	38.8	38.8
2-3 AM	310	0.0	183	0.0	OFF	310	0	183	0.00	0	70.2	70.2	70.2	38.8	38.8
3-4 AM	226	0.0	134	0.0	OFF	226	0	134	0.00	0	70.2	70.2	70.2	39.1	39.1
4-5 AM	202	0.0	120	0.0	OFF	202	0	120	0.00	0	70.2	70.2	70.2	39.1	39.1
5-6 AM	407	0.0	242	0.0	OFF	407	0	242	0.00	0	70.2	70.2	70.2	38.5	38.5
6-7 AM	791	0.0	470	0.0	OFF	791	0	470	0.00	0	69.7	69.7	69.7	37.3	37.3
7-8 AM	1176	0.0	699	0.0	OFF	1176	0	699	0.00	0	69.2	69.2	69.2	36.1	36.1
8-9 AM	1551	0.0	921	0.0	1499	1551	0	921	1.59	18	68.8	29.8	31.3	35.0	35.0
9-10 AM	1958	0.0	1163	0.0	1500	1901	57	1219+	10.43	272	68.3	8.9	30.8	33.8	33.8
10-11 AM	2245	0.0	1332	0.0	1499	1509	735	2067+	19.16	473	67.9	6.2	30.8	32.9	29.8
11A-NOON	2455	0.0	1458	0.0	1500	1528	927	2384+	20.39	506	67.7	6.0	30.8	32.2	28.3
NOON-1PM	2390	0.0	1419	0.0	1500	1484	906	2325+	20.15	499	67.8	6.1	30.8	32.5	28.6
1-2 PM	2404	0.0	1427	0.0	1499	1504	900	2327+	20.16	499	67.8	6.1	30.8	32.4	28.6
2-3 PM	2409	0.0	1430	0.0	1499	1497	912	2343+	20.22	501	67.8	6.1	30.8	32.4	28.5
3-4 PM	2228	0.0	1323	0.0	1500	1470	758	2080+	19.21	474	67.9	6.2	30.8	32.9	29.7
4-5 PM	2175	0.0	1291	0.0	1499	1491	684	1976+	18.83	464	68.0	6.3	30.8	33.1	30.3
5-6 PM	1932	0.0	1147	0.0	1500	1465	466	1613+	17.62	433	68.3	6.5	30.8	33.8	32.0
6-7 PM	1757	0.0	1043	0.0	OFF	1757	0	1043	0.22	21	68.6	58.1	58.1	34.4	34.4
7-8 PM	1435	0.0	852	0.0	OFF	1435	0	852	0.00	0	68.9	68.9	68.9	35.3	35.3
8-9 PM	1315	0.0	781	0.0	OFF	1315	0	781	0.00	0	69.1	69.1	69.1	35.7	35.7
9-10 PM	1223	0.0	726	0.0	OFF	1223	0	726	0.00	0	69.2	69.2	69.2	36.0	36.0
10-11 PM	1050	0.0	623	0.0	OFF	1050	0	623	0.00	0	69.4	69.4	69.4	36.5	36.5
11PM-MID	760	0.0	451	0.0	OFF	760	0	451	0.00	0	69.8	69.8	69.8	37.4	37.4

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0074
MAIN ROUTE WITH WORKS	0.0050
DIVERSION	0.0403

PIA: Personal Injury Accidents

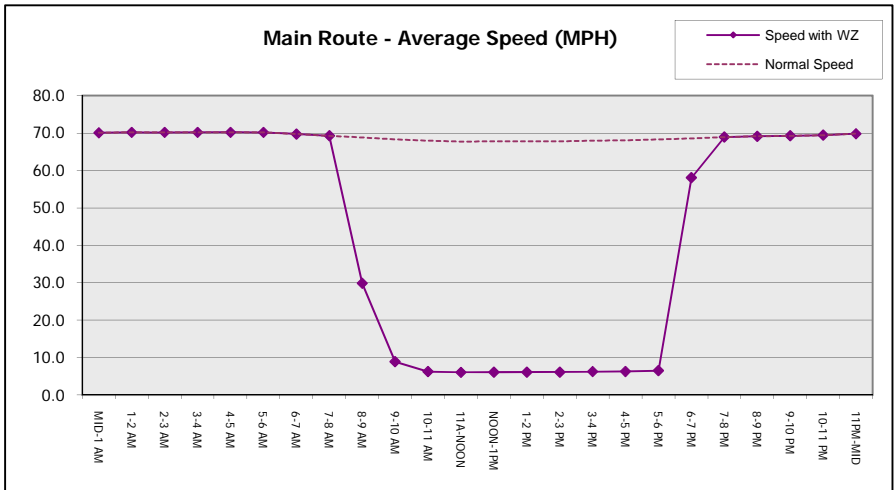
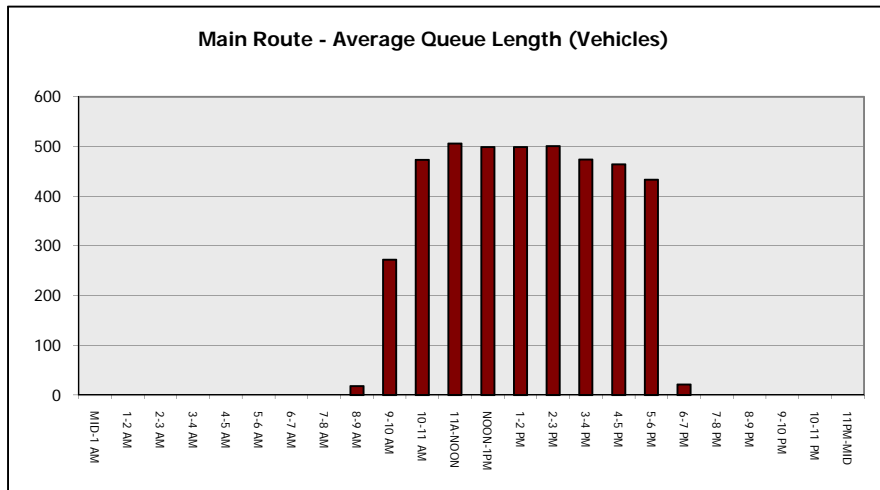
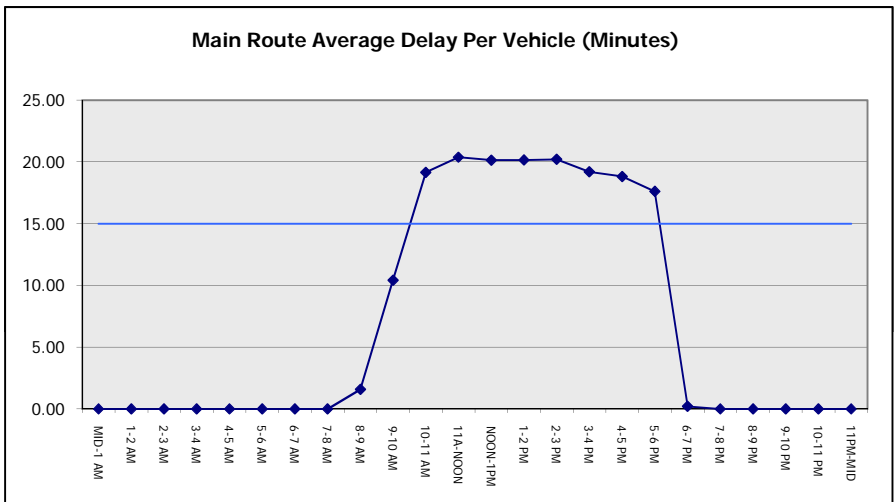
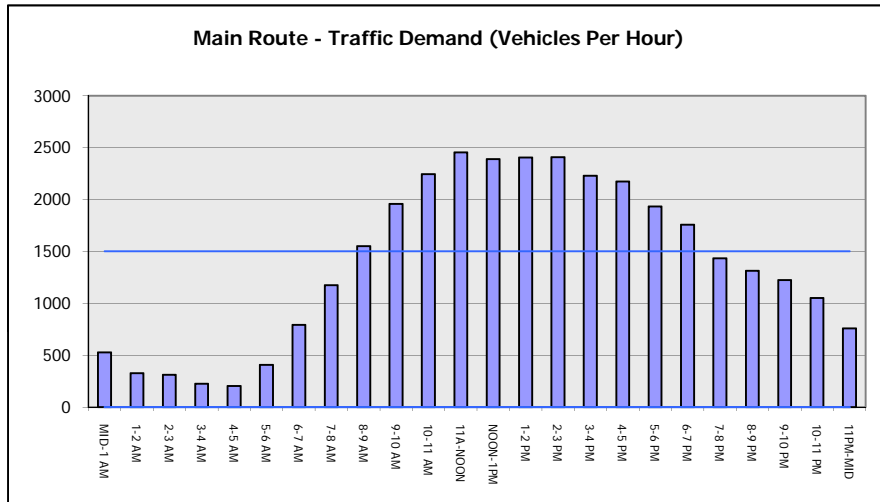
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$129,638
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
OFF-PEAK DAY 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
SATURDAY WESTBOUND DIRECTION



USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	AUGUST
	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			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	483	0.0	288	0.0	OFF	483	0	288	0.00	0	70.1	70.1	70.1	38.3	38.3
1-2 AM	302	0.0	179	0.0	OFF	302	0	179	0.00	0	70.2	70.2	70.2	38.8	38.8
2-3 AM	271	0.0	161	0.0	OFF	271	0	161	0.00	0	70.2	70.2	70.2	38.9	38.9
3-4 AM	181	0.0	108	0.0	OFF	181	0	108	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	204	0.0	121	0.0	OFF	204	0	121	0.00	0	70.2	70.2	70.2	39.1	39.1
5-6 AM	330	0.0	196	0.0	OFF	330	0	196	0.00	0	70.2	70.2	70.2	38.8	38.8
6-7 AM	686	0.0	408	0.0	OFF	686	0	408	0.00	0	69.9	69.9	69.9	37.6	37.6
7-8 AM	1160	0.0	690	0.0	OFF	1160	0	690	0.00	0	69.3	69.3	69.3	36.2	36.2
8-9 AM	1576	0.0	935	0.0	1499	1576	0	935	1.68	21	68.7	28.9	31.0	35.0	35.0
9-10 AM	1946	0.0	1156	0.0	1500	1884	62	1218+	10.75	277	68.3	8.7	30.8	33.8	33.8
10-11 AM	2292	0.0	1360	0.0	1499	1523	769	2129+	19.39	479	67.9	6.2	30.8	32.7	29.5
11A-NOON	2520	0.0	1496	0.0	1500	1535	985	2481+	20.80	516	67.6	6.0	30.8	32.0	27.8
NOON-1PM	2624	0.0	1558	0.0	1500	1513	1112	2670+	21.64	538	67.5	5.9	30.8	31.7	26.9
1-2 PM	2552	0.0	1516	0.0	1500	1483	1070	2586+	21.26	528	67.6	5.9	30.8	31.9	27.3
2-3 PM	2519	0.0	1495	0.0	1500	1495	1024	2519+	20.97	521	67.6	6.0	30.8	32.0	27.6
3-4 PM	2482	0.0	1474	0.0	1500	1492	990	2464+	20.73	514	67.6	6.0	30.8	32.2	27.9
4-5 PM	2401	0.0	1426	0.0	1500	1482	920	2346+	20.24	501	67.8	6.1	30.8	32.4	28.4
5-6 PM	2163	0.0	1284	0.0	1500	1457	706	1989+	18.89	466	68.1	6.3	30.8	33.2	30.2
6-7 PM	1738	0.0	1032	0.0	OFF	1738	0	1032	0.25	23	68.6	57.0	57.0	34.5	34.5
7-8 PM	1418	0.0	842	0.0	OFF	1418	0	842	0.00	0	69.0	69.0	69.0	35.4	35.4
8-9 PM	1319	0.0	784	0.0	OFF	1319	0	784	0.00	0	69.1	69.1	69.1	35.7	35.7
9-10 PM	1196	0.0	710	0.0	OFF	1196	0	710	0.00	0	69.2	69.2	69.2	36.1	36.1
10-11 PM	941	0.0	559	0.0	OFF	941	0	559	0.00	0	69.6	69.6	69.6	36.9	36.9
11PM-MID	755	0.0	449	0.0	OFF	755	0	449	0.00	0	69.8	69.8	69.8	37.4	37.4

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0076
MAIN ROUTE WITH WORKS	0.0049
DIVERSION	0.0430

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$145,405
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
OFF-PEAK DAY 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
SATURDAY EASTBOUND DIRECTION

