

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

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	OFF	532	0	316	0.00	0	70.0	70.0	70.0	38.1	38.1
1-2 AM	363	0.0	216	0.0	OFF	363	0	216	0.00	0	70.2	70.2	70.2	38.6	38.6
2-3 AM	347	0.0	206	0.0	OFF	347	0	206	0.00	0	70.2	70.2	70.2	38.7	38.7
3-4 AM	220	0.0	131	0.0	OFF	220	0	131	0.00	0	70.2	70.2	70.2	39.1	39.1
4-5 AM	299	0.0	178	0.0	OFF	299	0	178	0.00	0	70.2	70.2	70.2	38.8	38.8
5-6 AM	222	0.0	132	0.0	OFF	222	0	132	0.00	0	70.2	70.2	70.2	39.1	39.1
6-7 AM	399	0.0	236	0.0	OFF	399	0	236	0.00	0	70.2	70.2	70.2	38.5	38.5
7-8 AM	499	0.0	296	0.0	OFF	499	0	296	0.00	0	70.1	70.1	70.1	38.2	38.2
8-9 AM	748	0.0	445	0.0	OFF	748	0	445	0.00	0	69.8	69.8	69.8	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	OFF	1581	0	940	0.21	19	68.7	58.8	58.8	34.9	34.9
8-9 PM	1405	0.0	834	0.0	OFF	1405	0	834	0.00	0	69.0	69.0	69.0	35.5	35.5
9-10 PM	1157	0.0	687	0.0	OFF	1157	0	687	0.00	0	69.3	69.3	69.3	36.2	36.2
10-11 PM	802	0.0	476	0.0	OFF	802	0	476	0.00	0	69.7	69.7	69.7	37.3	37.3
11PM-MID	499	0.0	296	0.0	OFF	499	0	296	0.00	0	70.1	70.1	70.1	38.2	38.2

"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	0.0065
MAIN ROUTE WITH WORKS	0.0044
DIVERSION	0.0348

PIA: Personal Injury Accidents

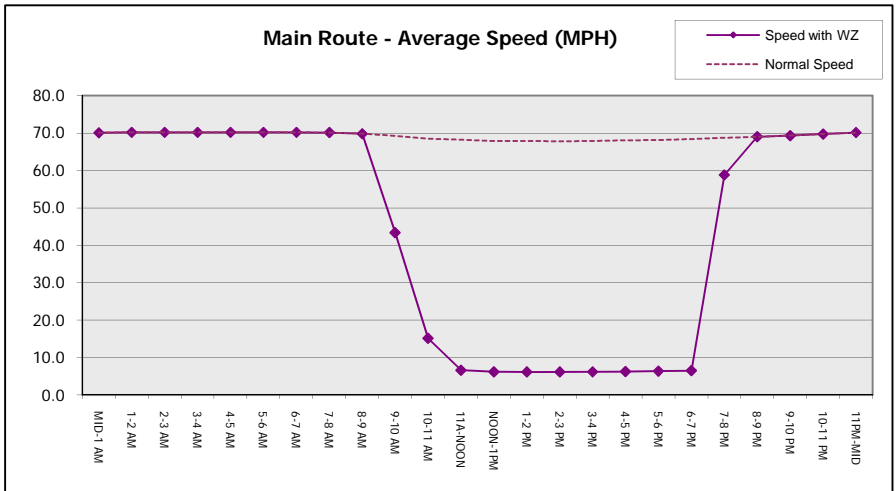
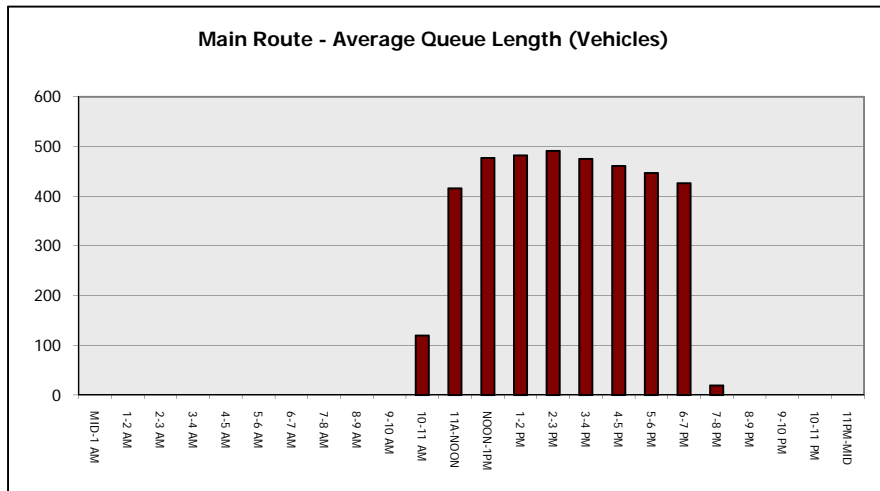
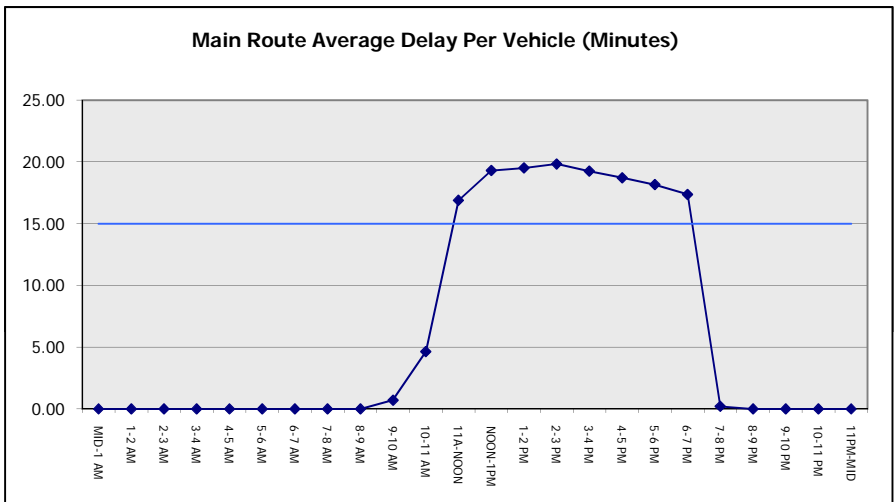
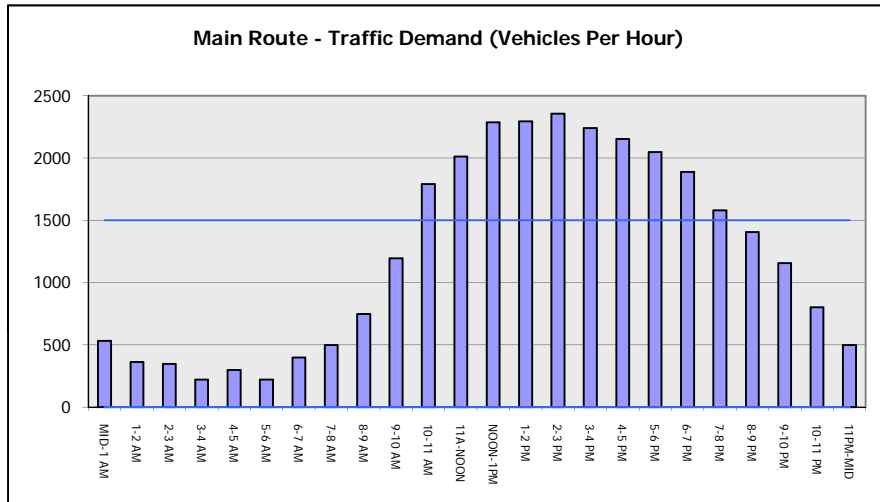
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$111,795
CONGESTED HOURS PER DAY*	8

*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
SUNDAY 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

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		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	494	0.0	293	0.0	OFF	494	0	293	0.00	0	70.1	70.1	70.1	38.3	38.3
1-2 AM	300	0.0	178	0.0	OFF	300	0	178	0.00	0	70.2	70.2	70.2	38.8	38.8
2-3 AM	246	0.0	146	0.0	OFF	246	0	146	0.00	0	70.2	70.2	70.2	39.0	39.0
3-4 AM	160	0.0	95	0.0	OFF	160	0	95	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	155	0.0	92	0.0	OFF	155	0	92	0.00	0	70.2	70.2	70.2	39.2	39.2
5-6 AM	194	0.0	115	0.0	OFF	194	0	115	0.00	0	70.2	70.2	70.2	39.1	39.1
6-7 AM	377	0.0	224	0.0	OFF	377	0	224	0.00	0	70.2	70.2	70.2	38.6	38.6
7-8 AM	648	0.0	384	0.0	OFF	648	0	384	0.00	0	69.9	69.9	69.9	37.8	37.8
8-9 AM	1018	0.0	605	0.0	OFF	1018	0	605	0.00	0	69.5	69.5	69.5	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	OFF	1560	0	927	0.20	18	68.8	59.2	59.2	35.0	35.0
8-9 PM	1321	0.0	784	0.0	OFF	1321	0	784	0.00	0	69.1	69.1	69.1	35.7	35.7
9-10 PM	1025	0.0	609	0.0	OFF	1025	0	609	0.00	0	69.4	69.4	69.4	36.6	36.6
10-11 PM	630	0.0	374	0.0	OFF	630	0	374	0.00	0	69.9	69.9	69.9	37.8	37.8
11PM-MID	430	0.0	255	0.0	OFF	430	0	255	0.00	0	70.2	70.2	70.2	38.4	38.4

"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	0.0068
MAIN ROUTE WITH WORKS	0.0043
DIVERSION	0.0377

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$129,032
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
SUNDAY EASTBOUND DIRECTION

