

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	OCTOBER
	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	710	0.0	422	0.0	OFF	710	0	422	0.00	0	69.9	69.9	69.9	37.6	37.6
1-2 AM	411	0.0	244	0.0	OFF	411	0	244	0.00	0	70.2	70.2	70.2	38.5	38.5
2-3 AM	281	0.0	167	0.0	OFF	281	0	167	0.00	0	70.2	70.2	70.2	38.9	38.9
3-4 AM	236	0.0	140	0.0	OFF	236	0	140	0.00	0	70.2	70.2	70.2	39.0	39.0
4-5 AM	193	0.0	114	0.0	OFF	193	0	114	0.00	0	70.2	70.2	70.2	39.2	39.2
5-6 AM	205	0.0	121	0.0	OFF	205	0	121	0.00	0	70.2	70.2	70.2	39.1	39.1
6-7 AM	341	0.0	203	0.0	OFF	341	0	203	0.00	0	70.2	70.2	70.2	38.7	38.7
7-8 AM	705	0.0	420	0.0	OFF	705	0	420	0.00	0	69.9	69.9	69.9	37.6	37.6
8-9 AM	1281	0.0	761	0.0	1499	1281	0	761	0.79	0	69.1	41.9	36.6	35.8	35.8
9-10 AM	2011	0.0	1195	0.0	1499	2011	0	1195	7.45	214	68.2	11.2	30.8	33.6	33.8
10-11 AM	2594	0.0	1540	0.0	1499	1538	1056	2597+	21.32	530	67.5	5.9	30.8	31.8	27.3
11A-NOON	2511	0.0	1491	0.0	1500	1469	1042	2533+	21.03	522	67.6	6.0	30.8	32.1	27.6
NOON-1PM	2554	0.0	1517	0.0	1499	1513	1041	2559+	21.14	525	67.6	6.0	30.8	31.9	27.4
1-2 PM	2668	0.0	1585	0.0	1500	1521	1147	2732+	21.97	547	67.4	5.8	30.8	31.6	26.5
2-3 PM	2612	0.0	1551	0.0	1500	1488	1124	2675+	21.68	539	67.5	5.9	30.8	31.8	26.8
3-4 PM	2743	0.0	1628	0.0	1500	1535	1207	2835+	22.53	562	67.3	5.8	30.8	31.4	26.0
4-5 PM	2841	0.0	1687	0.0	1500	1520	1321	3008+	23.56	589	67.2	5.7	30.8	31.1	25.0
5-6 PM	2815	0.0	1672	0.0	1500	1475	1340	3012+	23.62	590	67.3	5.7	30.8	31.2	25.0
6-7 PM	2363	0.0	1403	0.0	OFF	2363	0	1403+	0.46	44	67.8	49.4	49.4	32.5	32.5
7-8 PM	1899	0.0	1128	0.0	OFF	1899	0	1128	0.00	0	68.4	68.4	68.4	34.0	34.0
8-9 PM	1383	0.0	821	0.0	OFF	1383	0	821	0.00	0	69.0	69.0	69.0	35.5	35.5
9-10 PM	1141	0.0	677	0.0	OFF	1141	0	677	0.00	0	69.3	69.3	69.3	36.3	36.3
10-11 PM	1031	0.0	612	0.0	OFF	1031	0	612	0.00	0	69.4	69.4	69.4	36.6	36.6
11PM-MID	961	0.0	570	0.0	OFF	961	0	570	0.00	0	69.6	69.6	69.6	36.8	36.8

"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	0.0081
MAIN ROUTE WITH WORKS	0.0050
DIVERSION	0.0478

PIA: Personal Injury Accidents

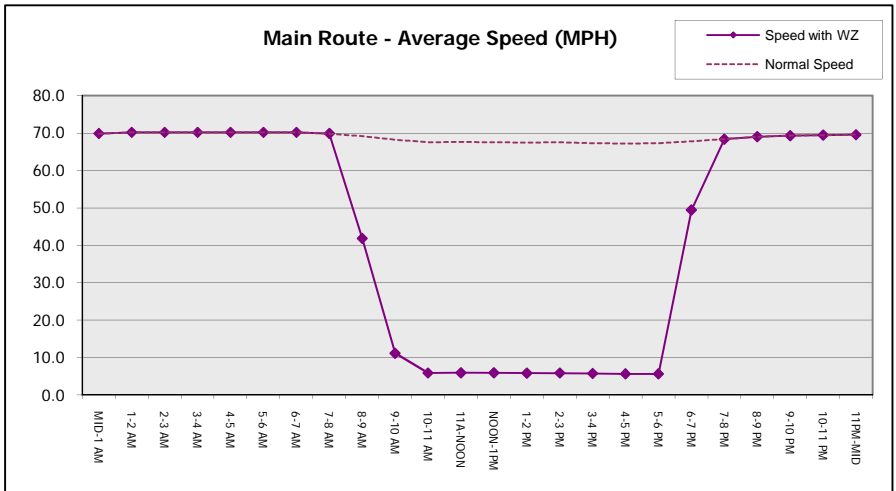
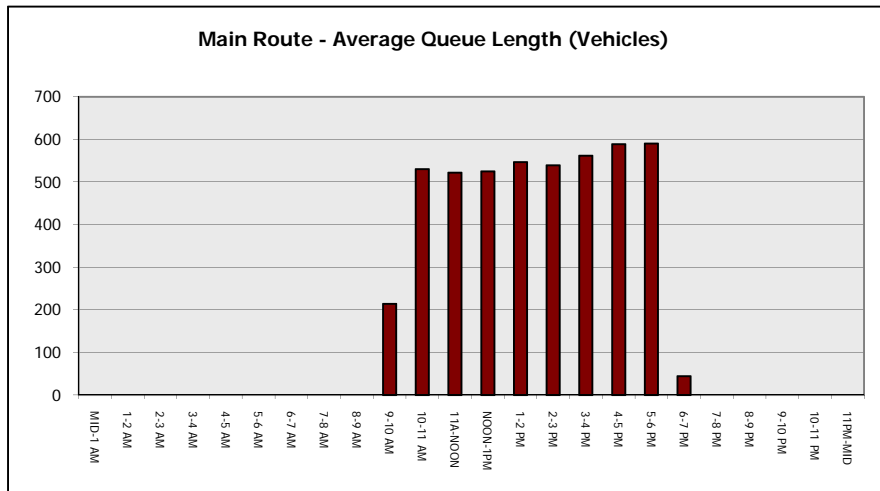
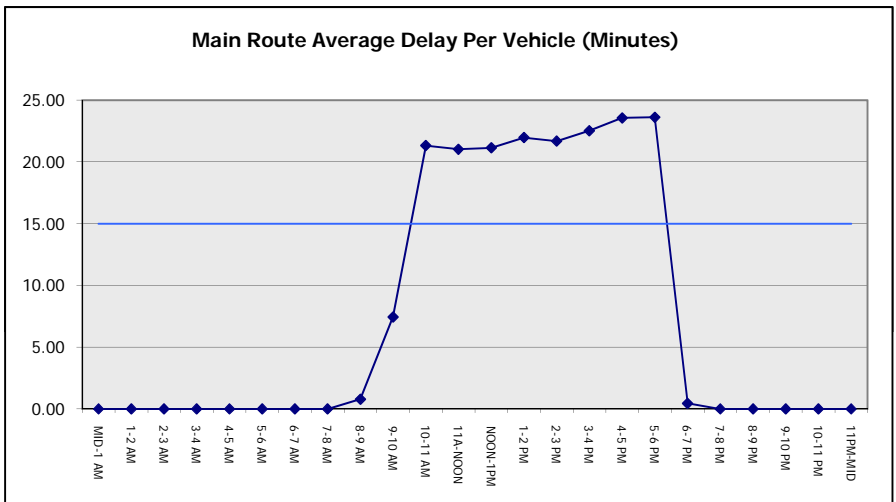
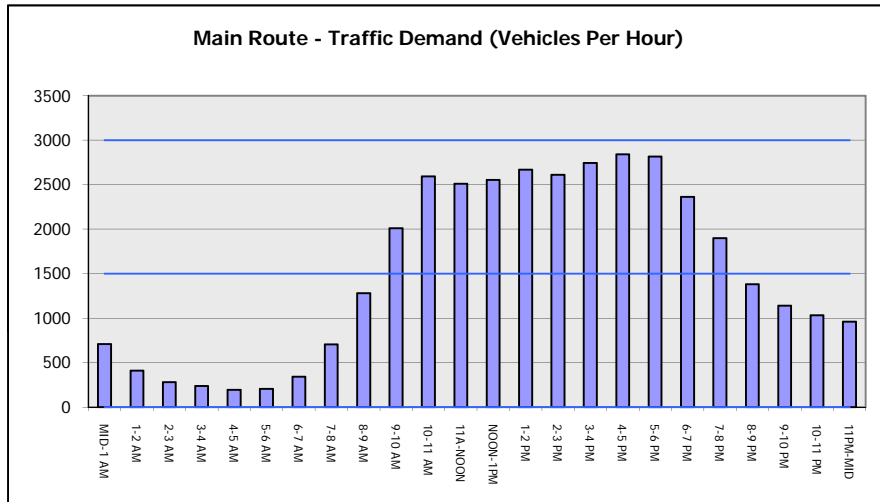
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$170,944
CONGESTED HOURS PER DAY*	8

*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

OCTOBER
 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	OCTOBER
	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 DIVERTING	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	OFF	713	0	423	0.00	0	69.9	69.9	69.9	37.6	37.6
1-2 AM	463	0.0	275	0.0	OFF	463	0	275	0.00	0	70.2	70.2	70.2	38.3	38.3
2-3 AM	281	0.0	167	0.0	OFF	281	0	167	0.00	0	70.2	70.2	70.2	38.9	38.9
3-4 AM	258	0.0	154	0.0	OFF	258	0	154	0.00	0	70.2	70.2	70.2	38.9	38.9
4-5 AM	198	0.0	117	0.0	OFF	198	0	117	0.00	0	70.2	70.2	70.2	39.1	39.1
5-6 AM	161	0.0	95	0.0	OFF	161	0	95	0.00	0	70.2	70.2	70.2	39.2	39.2
6-7 AM	311	0.0	185	0.0	OFF	311	0	185	0.00	0	70.2	70.2	70.2	38.8	38.8
7-8 AM	605	0.0	359	0.0	OFF	605	0	359	0.00	0	70.0	70.0	70.0	37.9	37.9
8-9 AM	1083	0.0	644	0.0	1499	1083	0	644	0.64	0	69.4	45.3	40.1	36.5	36.5
9-10 AM	1529	0.0	908	0.0	1499	1529	0	908	1.50	15	68.8	30.9	31.5	35.1	35.1
10-11 AM	1823	0.0	1082	0.0	1500	1823	0	1082	7.93	200	68.5	10.4	30.8	34.2	34.4
11A-NOON	2214	0.0	1315	0.0	1499	1598	616	1932+	18.68	461	68.0	6.3	30.8	33.0	30.5
NOON-1PM	2399	0.0	1425	0.0	1500	1524	875	2301+	20.05	497	67.8	6.1	30.8	32.4	28.7
1-2 PM	2460	0.0	1461	0.0	1500	1506	954	2415+	20.52	509	67.7	6.0	30.8	32.2	28.1
2-3 PM	2440	0.0	1449	0.0	1500	1501	939	2389+	20.41	506	67.7	6.0	30.8	32.3	28.3
3-4 PM	2687	0.0	1596	0.0	1499	1556	1131	2727+	21.95	547	67.4	5.8	30.8	31.5	26.6
4-5 PM	2859	0.0	1697	0.0	1500	1530	1329	3026+	23.67	592	67.2	5.7	30.8	31.0	24.9
5-6 PM	2685	0.0	1595	0.0	1500	1440	1245	2840+	22.61	564	67.4	5.8	30.8	31.5	25.9
6-7 PM	2309	0.0	1371	0.0	OFF	2309	0	1371+	0.40	39	67.9	51.1	51.1	32.7	32.7
7-8 PM	2002	0.0	1189	0.0	OFF	2002	0	1189	0.00	0	68.2	68.2	68.2	33.7	33.7
8-9 PM	1584	0.0	941	0.0	OFF	1584	0	941	0.00	0	68.7	68.7	68.7	34.9	34.9
9-10 PM	1313	0.0	780	0.0	OFF	1313	0	780	0.00	0	69.1	69.1	69.1	35.7	35.7
10-11 PM	1375	0.0	816	0.0	OFF	1375	0	816	0.00	0	69.1	69.1	69.1	35.5	35.5
11PM-MID	1825	0.0	1084	0.0	OFF	1825	0	1084	0.00	0	68.5	68.5	68.5	34.2	34.2

"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	0.0079
MAIN ROUTE WITH WORKS	0.0053
DIVERSION	0.0436

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$138,061
CONGESTED HOURS PER DAY*	7

*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

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

