

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

MON-THUR 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	381	0.0	226	0.0	OFF	381	0	226	0.00	0	70.2	70.2	70.2	38.6	38.6
1-2 AM	212	0.0	126	0.0	OFF	212	0	126	0.00	0	70.2	70.2	70.2	39.1	39.1
2-3 AM	146	0.0	87	0.0	OFF	146	0	87	0.00	0	70.2	70.2	70.2	39.3	39.3
3-4 AM	135	0.0	81	0.0	OFF	135	0	81	0.00	0	70.2	70.2	70.2	39.3	39.3
4-5 AM	174	0.0	103	0.0	OFF	174	0	103	0.00	0	70.2	70.2	70.2	39.2	39.2
5-6 AM	316	0.0	187	0.0	OFF	316	0	187	0.00	0	70.2	70.2	70.2	38.8	38.8
6-7 AM	1017	0.0	604	0.0	OFF	1017	0	604	0.00	0	69.5	69.5	69.5	36.6	36.6
7-8 AM	2891	0.0	1717	0.0	OFF	2891	0	1717+	0.00	0	67.1	67.1	67.1	30.9	30.9
8-9 AM	4280	0.0	2542	0.0	OFF	4280	0	2542+	0.00	0	61.6	61.6	61.6	26.7	26.7
9-10 AM	3392	0.0	2014	0.0	OFF	3392	0	2014+	0.00	0	66.5	66.5	66.5	29.4	29.4
10-11 AM	2372	0.0	1408	0.0	1499	1968	404	1813+	14.49	368	67.8	7.3	30.8	32.5	30.9
11A-NOON	2110	0.0	1253	0.0	1499	1483	627	1879+	18.49	455	68.1	6.3	30.8	33.3	30.7
NOON-1PM	2169	0.0	1288	0.0	1499	1515	654	1942+	18.71	461	68.1	6.3	30.8	33.1	30.4
1-2 PM	2262	0.0	1344	0.0	1499	1514	748	2092+	19.25	475	67.9	6.2	30.8	32.9	29.7
2-3 PM	2294	0.0	1362	0.0	1500	1505	789	2151+	19.47	481	67.9	6.1	30.8	32.7	29.4
3-4 PM	2393	0.0	1421	0.0	OFF	2393	0	1421+	0.34	32	67.8	53.3	53.3	32.4	32.4
4-5 PM	2723	0.0	1617	0.0	OFF	2723	0	1617+	0.00	0	67.4	67.4	67.4	31.4	31.4
5-6 PM	3043	0.0	1807	0.0	OFF	3043	0	1807+	0.00	0	66.9	66.9	66.9	30.4	30.4
6-7 PM	2781	0.0	1651	0.0	OFF	2781	0	1651+	0.00	0	67.3	67.3	67.3	31.2	31.2
7-8 PM	2082	0.0	1237	0.0	OFF	2082	0	1237+	0.00	0	68.1	68.1	68.1	33.4	33.4
8-9 PM	1442	0.0	856	0.0	OFF	1442	0	856	0.00	0	68.9	68.9	68.9	35.3	35.3
9-10 PM	1135	0.0	674	0.0	OFF	1135	0	674	0.00	0	69.3	69.3	69.3	36.3	36.3
10-11 PM	1003	0.0	595	0.0	OFF	1003	0	595	0.00	0	69.5	69.5	69.5	36.7	36.7
11PM-MID	697	0.0	413	0.0	OFF	697	0	413	0.00	0	69.9	69.9	69.9	37.6	37.6

"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	0.0092
MAIN ROUTE WITH WORKS	0.0080
DIVERSION	0.0430

PIA: Personal Injury Accidents

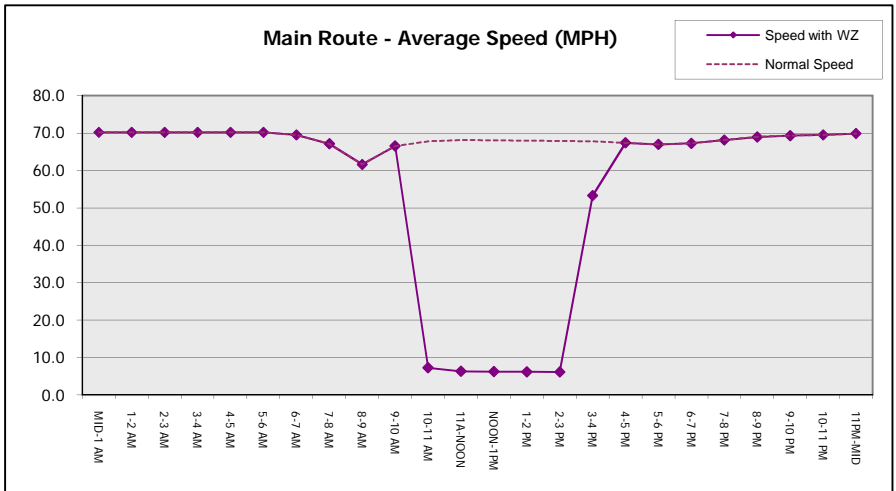
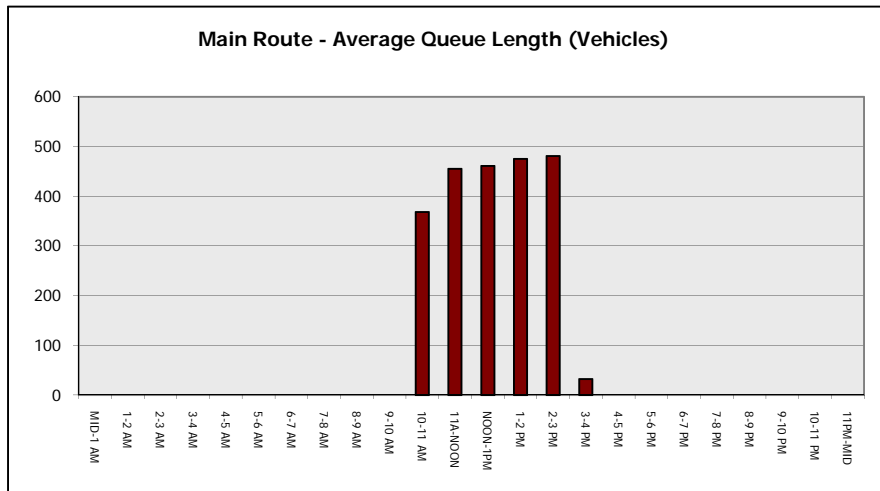
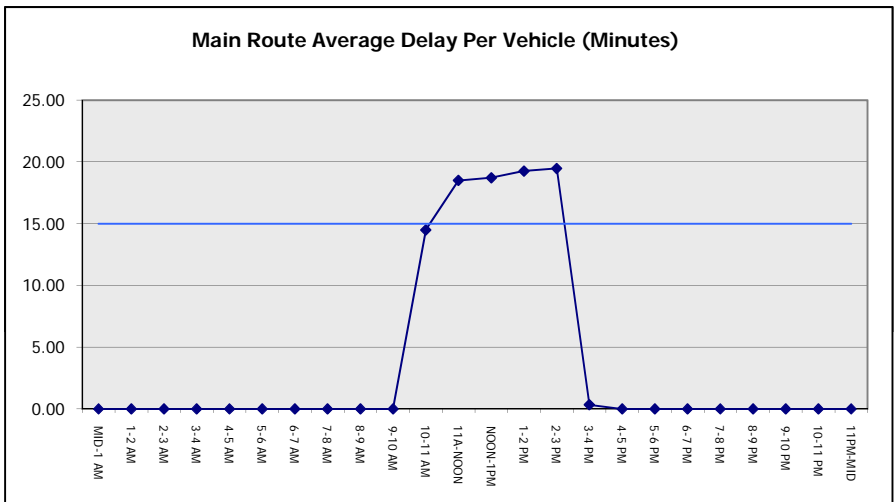
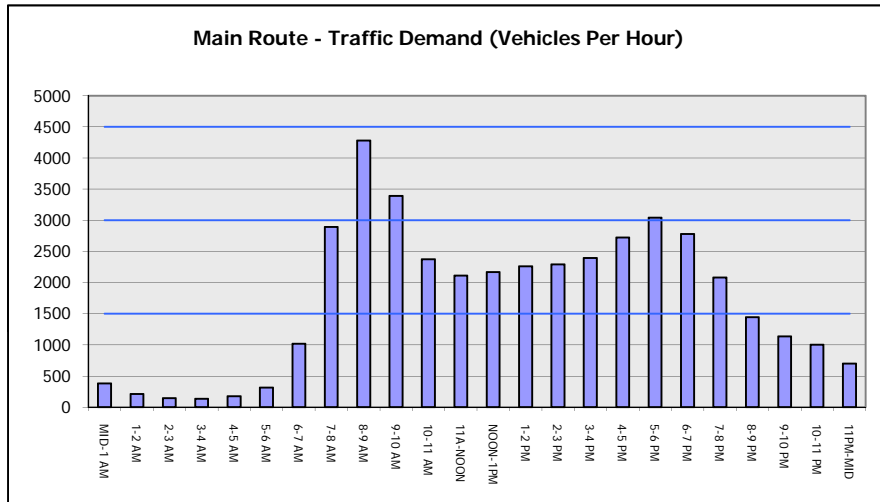
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$54,730
CONGESTED HOURS PER DAY*	4

*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
MON-THUR 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

MON-THUR 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	402	0.0	239	0.0	OFF	402	0	239	0.00	0	70.2	70.2	70.2	38.5	38.5
1-2 AM	239	0.0	141	0.0	OFF	239	0	141	0.00	0	70.2	70.2	70.2	39.0	39.0
2-3 AM	148	0.0	88	0.0	OFF	148	0	88	0.00	0	70.2	70.2	70.2	39.3	39.3
3-4 AM	127	0.0	75	0.0	OFF	127	0	75	0.00	0	70.2	70.2	70.2	39.4	39.4
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	295	0.0	175	0.0	OFF	295	0	175	0.00	0	70.2	70.2	70.2	38.9	38.9
6-7 AM	845	0.0	502	0.0	OFF	845	0	502	0.00	0	69.7	69.7	69.7	37.1	37.1
7-8 AM	1898	0.0	1127	0.0	OFF	1898	0	1127	0.00	0	68.4	68.4	68.4	34.0	34.0
8-9 AM	3025	0.0	1797	0.0	OFF	3025	0	1797+	0.00	0	66.9	66.9	66.9	30.5	30.5
9-10 AM	2480	0.0	1472	0.0	OFF	2480	0	1472+	0.00	0	67.6	67.6	67.6	32.2	32.2
10-11 AM	1936	0.0	1150	0.0	1499	1936	0	1150	8.86	233	68.3	9.8	30.8	33.8	34.1
11A-NOON	1975	0.0	1173	0.0	1499	1504	470	1643+	17.71	435	68.3	6.5	30.8	33.7	31.9
NOON-1PM	2225	0.0	1321	0.0	1499	1538	687	2008+	18.94	467	68.0	6.3	30.8	33.0	30.1
1-2 PM	2313	0.0	1374	0.0	1500	1510	802	2176+	19.57	484	67.9	6.1	30.8	32.7	29.3
2-3 PM	2371	0.0	1407	0.0	1500	1517	854	2262+	19.90	493	67.8	6.1	30.8	32.5	28.9
3-4 PM	2789	0.0	1656	0.0	OFF	2789	0	1656+	0.41	39	67.3	50.6	50.6	31.2	31.2
4-5 PM	3594	0.0	2135	0.0	OFF	3594	0	2135+	0.00	0	66.3	66.3	66.3	28.8	28.8
5-6 PM	4170	0.0	2476	0.0	OFF	4170	0	2476+	0.00	0	62.3	62.3	62.3	27.0	27.0
6-7 PM	3656	0.0	2171	0.0	OFF	3656	0	2171+	0.00	0	65.9	65.9	65.9	28.6	28.6
7-8 PM	2389	0.0	1419	0.0	OFF	2389	0	1419+	0.00	0	67.8	67.8	67.8	32.5	32.5
8-9 PM	1588	0.0	943	0.0	OFF	1588	0	943	0.00	0	68.7	68.7	68.7	34.9	34.9
9-10 PM	1286	0.0	764	0.0	OFF	1286	0	764	0.00	0	69.1	69.1	69.1	35.8	35.8
10-11 PM	1080	0.0	641	0.0	OFF	1080	0	641	0.00	0	69.4	69.4	69.4	36.5	36.5
11PM-MID	737	0.0	437	0.0	OFF	737	0	437	0.00	0	69.8	69.8	69.8	37.5	37.5

"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	0.0093
MAIN ROUTE WITH WORKS	0.0081
DIVERSION	0.0426

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$50,652
CONGESTED HOURS PER DAY*	4

*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
MON-THUR EASTBOUND DIRECTION

