

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

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	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	484	0.0	288	0.0	OFF	484	0	288	0.00	0	70.1	70.1	70.1	38.3	38.3
2-3 AM	300	0.0	178	0.0	OFF	300	0	178	0.00	0	70.2	70.2	70.2	38.8	38.8
3-4 AM	250	0.0	149	0.0	OFF	250	0	149	0.00	0	70.2	70.2	70.2	39.0	39.0
4-5 AM	171	0.0	102	0.0	OFF	171	0	102	0.00	0	70.2	70.2	70.2	39.2	39.2
5-6 AM	125	0.0	73	0.0	OFF	125	0	73	0.00	0	70.2	70.2	70.2	39.4	39.4
6-7 AM	184	0.0	109	0.0	OFF	184	0	109	0.00	0	70.2	70.2	70.2	39.2	39.2
7-8 AM	383	0.0	227	0.0	OFF	383	0	227	0.00	0	70.2	70.2	70.2	38.6	38.6
8-9 AM	470	0.0	278	0.0	OFF	470	0	278	0.00	0	70.2	70.2	70.2	38.3	38.3
9-10 AM	754	0.0	448	0.0	1500	754	0	448	0.56	0	69.8	47.6	42.5	37.4	37.4
10-11 AM	1266	0.0	752	0.0	1499	1266	0	752	0.78	0	69.2	42.1	36.8	35.9	35.9
11A-NOON	1747	0.0	1038	0.0	1499	1747	0	1038	4.00	99	68.6	16.7	30.8	34.4	34.5
NOON-1PM	2052	0.0	1218	0.0	1500	1707	345	1563+	16.61	411	68.2	6.7	30.8	33.5	32.3
1-2 PM	2236	0.0	1328	0.0	1499	1520	717	2044+	19.08	471	67.9	6.2	30.8	32.9	29.9
2-3 PM	2114	0.0	1256	0.0	1500	1479	635	1891+	18.53	456	68.1	6.3	30.8	33.3	30.7
3-4 PM	2138	0.0	1269	0.0	1499	1506	632	1901+	18.57	457	68.1	6.3	30.8	33.2	30.6
4-5 PM	2173	0.0	1290	0.0	1500	1504	669	1960+	18.77	463	68.1	6.3	30.8	33.1	30.4
5-6 PM	2126	0.0	1263	0.0	1500	1491	636	1899+	18.56	457	68.1	6.3	30.8	33.2	30.7
6-7 PM	2026	0.0	1202	0.0	1500	1484	542	1744+	18.04	443	68.2	6.4	30.8	33.5	31.4
7-8 PM	1872	0.0	1111	0.0	OFF	1872	0	1111	0.24	23	68.4	57.1	57.1	34.0	34.0
8-9 PM	1536	0.0	912	0.0	OFF	1536	0	912	0.00	0	68.8	68.8	68.8	35.0	35.0
9-10 PM	1234	0.0	732	0.0	OFF	1234	0	732	0.00	0	69.2	69.2	69.2	36.0	36.0
10-11 PM	938	0.0	557	0.0	OFF	938	0	557	0.00	0	69.6	69.6	69.6	36.9	36.9
11PM-MID	653	0.0	388	0.0	OFF	653	0	388	0.00	0	69.9	69.9	69.9	37.8	37.8

"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 (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	0.0062
MAIN ROUTE WITH WORKS	0.0043
DIVERSION	0.0321

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$94,432
CONGESTED HOURS PER DAY*	7

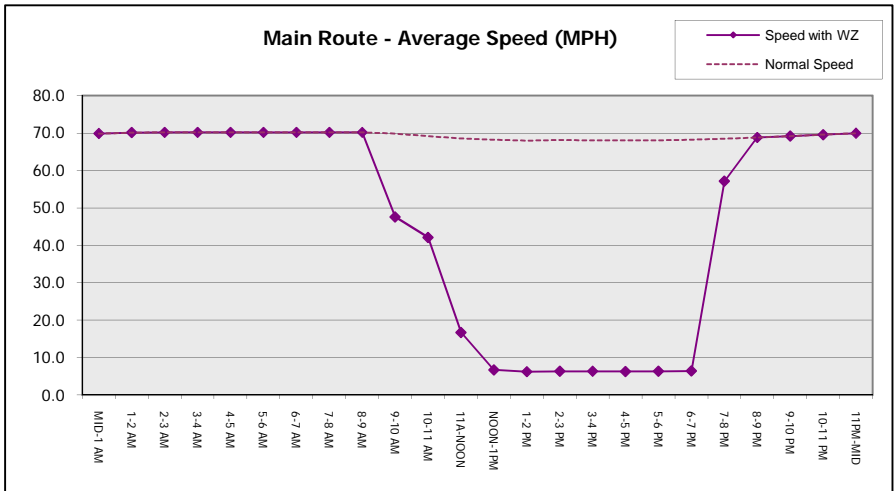
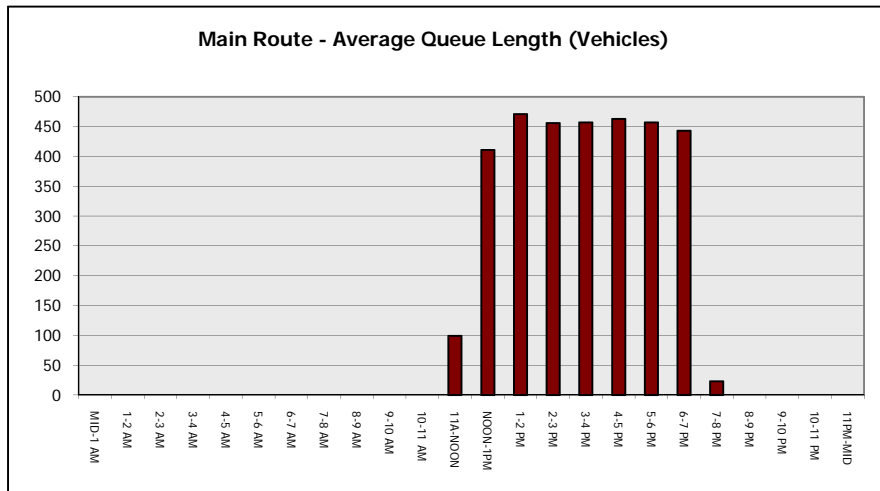
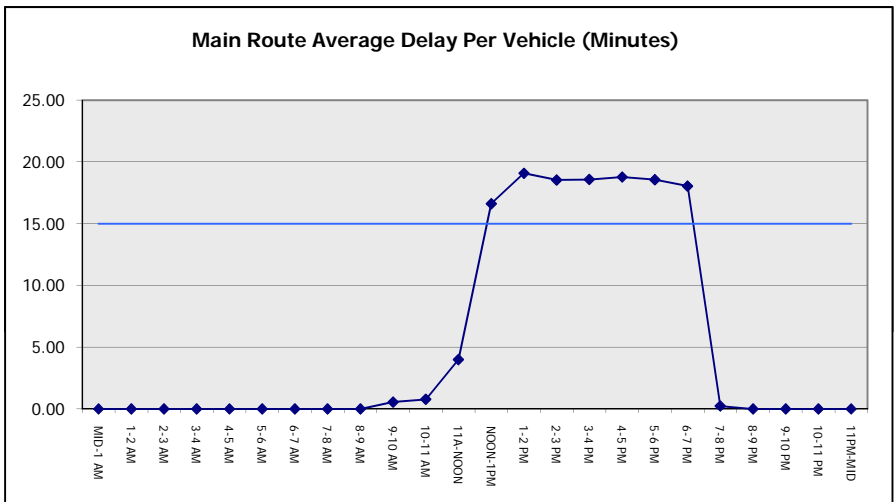
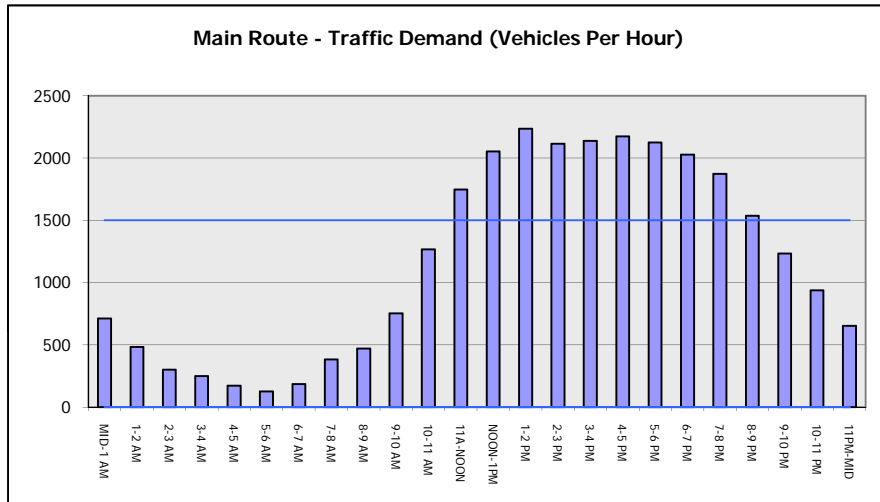
*Delays Exceeding 15 Minutes

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

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	OCTOBER
	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			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	1591	0.0	945	0.0	OFF	1591	0	945	0.00	0	68.7	68.7	68.7	34.9	34.9
1-2 AM	651	0.0	387	0.0	OFF	651	0	387	0.00	0	69.9	69.9	69.9	37.8	37.8
2-3 AM	348	0.0	207	0.0	OFF	348	0	207	0.00	0	70.2	70.2	70.2	38.7	38.7
3-4 AM	285	0.0	168	0.0	OFF	285	0	168	0.00	0	70.2	70.2	70.2	38.9	38.9
4-5 AM	188	0.0	112	0.0	OFF	188	0	112	0.00	0	70.2	70.2	70.2	39.2	39.2
5-6 AM	148	0.0	88	0.0	OFF	148	0	88	0.00	0	70.2	70.2	70.2	39.3	39.3
6-7 AM	216	0.0	128	0.0	OFF	216	0	128	0.00	0	70.2	70.2	70.2	39.1	39.1
7-8 AM	358	0.0	212	0.0	OFF	358	0	212	0.00	0	70.2	70.2	70.2	38.6	38.6
8-9 AM	743	0.0	442	0.0	OFF	743	0	442	0.00	0	69.8	69.8	69.8	37.4	37.4
9-10 AM	1151	0.0	683	0.0	1499	1151	0	683	0.69	0	69.3	44.2	39.0	36.2	36.2
10-11 AM	1682	0.0	998	0.0	1499	1682	0	998	2.79	61	68.6	21.1	30.8	34.6	34.7
11A-NOON	2089	0.0	1240	0.0	1500	1781	308	1548+	15.30	383	68.1	7.0	30.8	33.3	32.3
NOON-1PM	2303	0.0	1368	0.0	1500	1528	775	2143+	19.44	480	67.9	6.2	30.8	32.7	29.4
1-2 PM	2409	0.0	1430	0.0	1500	1513	896	2326+	20.15	499	67.8	6.1	30.8	32.4	28.6
2-3 PM	2410	0.0	1432	0.0	1500	1499	911	2343+	20.22	501	67.8	6.1	30.8	32.4	28.5
3-4 PM	2450	0.0	1455	0.0	1500	1510	940	2394+	20.43	507	67.7	6.0	30.8	32.3	28.3
4-5 PM	2587	0.0	1536	0.0	1499	1520	1067	2603+	21.33	530	67.5	5.9	30.8	31.9	27.2
5-6 PM	2407	0.0	1429	0.0	1500	1458	949	2379+	20.38	505	67.8	6.0	30.8	32.4	28.3
6-7 PM	2079	0.0	1235	0.0	1500	1450	630	1864+	18.45	454	68.1	6.3	30.8	33.4	30.8
7-8 PM	1760	0.0	1045	0.0	OFF	1760	0	1045	0.24	22	68.6	57.4	57.4	34.3	34.3
8-9 PM	1371	0.0	814	0.0	OFF	1371	0	814	0.00	0	69.1	69.1	69.1	35.6	35.6
9-10 PM	998	0.0	592	0.0	OFF	998	0	592	0.00	0	69.5	69.5	69.5	36.7	36.7
10-11 PM	714	0.0	424	0.0	OFF	714	0	424	0.00	0	69.9	69.9	69.9	37.6	37.6
11PM-MID	510	0.0	302	0.0	OFF	510	0	302	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	0.0070
MAIN ROUTE WITH WORKS	0.0046
DIVERSION	0.0388

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$125,084
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
SUNDAY EASTBOUND DIRECTION

