

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	MAY
	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	431	0.0	256	0.0	OFF	431	0	256	0.00	0	70.2	70.2	70.2	38.4	38.4
1-2 AM	290	0.0	172	0.0	OFF	290	0	172	0.00	0	70.2	70.2	70.2	38.9	38.9
2-3 AM	262	0.0	156	0.0	OFF	262	0	156	0.00	0	70.2	70.2	70.2	38.9	38.9
3-4 AM	163	0.0	97	0.0	OFF	163	0	97	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	127	0.0	75	0.0	OFF	127	0	75	0.00	0	70.2	70.2	70.2	39.4	39.4
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	480	0.0	285	0.0	OFF	480	0	285	0.00	0	70.1	70.1	70.1	38.3	38.3
7-8 AM	537	0.0	318	0.0	OFF	537	0	318	0.00	0	70.0	70.0	70.0	38.1	38.1
8-9 AM	893	0.0	531	0.0	OFF	893	0	531	0.00	0	69.6	69.6	69.6	37.0	37.0
9-10 AM	1307	0.0	776	0.0	1499	1307	0	776	0.84	0	69.1	40.9	35.5	35.8	35.8
10-11 AM	1677	0.0	996	0.0	1499	1677	0	996	3.03	66	68.6	19.9	30.8	34.7	34.7
11A-NOON	2026	0.0	1203	0.0	1500	1775	251	1454+	14.65	367	68.2	7.2	30.8	33.5	32.8
NOON-1PM	2293	0.0	1361	0.0	1500	1533	760	2121+	19.36	478	67.9	6.2	30.8	32.7	29.6
1-2 PM	2154	0.0	1280	0.0	1500	1473	681	1961+	18.78	463	68.1	6.3	30.8	33.2	30.4
2-3 PM	2137	0.0	1269	0.0	1499	1501	636	1905+	18.58	458	68.1	6.3	30.8	33.2	30.6
3-4 PM	2172	0.0	1290	0.0	1499	1504	668	1958+	18.77	463	68.1	6.3	30.8	33.1	30.4
4-5 PM	2115	0.0	1256	0.0	1500	1490	625	1881+	18.50	456	68.1	6.3	30.8	33.3	30.7
5-6 PM	2050	0.0	1217	0.0	1500	1489	561	1778+	18.15	446	68.2	6.4	30.8	33.5	31.2
6-7 PM	1875	0.0	1113	0.0	1500	1474	401	1515+	17.32	425	68.4	6.5	30.8	34.0	32.5
7-8 PM	1542	0.0	916	0.0	OFF	1542	0	916	0.20	19	68.8	59.0	59.0	35.0	35.0
8-9 PM	1348	0.0	800	0.0	OFF	1348	0	800	0.00	0	69.1	69.1	69.1	35.6	35.6
9-10 PM	1114	0.0	661	0.0	OFF	1114	0	661	0.00	0	69.4	69.4	69.4	36.3	36.3
10-11 PM	965	0.0	572	0.0	OFF	965	0	572	0.00	0	69.6	69.6	69.6	36.8	36.8
11PM-MID	484	0.0	288	0.0	OFF	484	0	288	0.00	0	70.1	70.1	70.1	38.3	38.3

"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	0.0064
MAIN ROUTE WITH WORKS	0.0044
DIVERSION	0.0333

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$103,082
CONGESTED HOURS PER DAY*	7

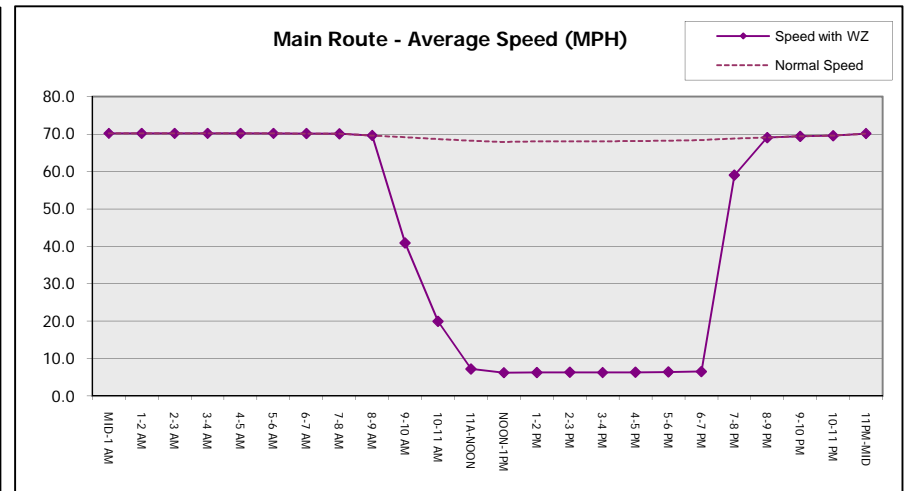
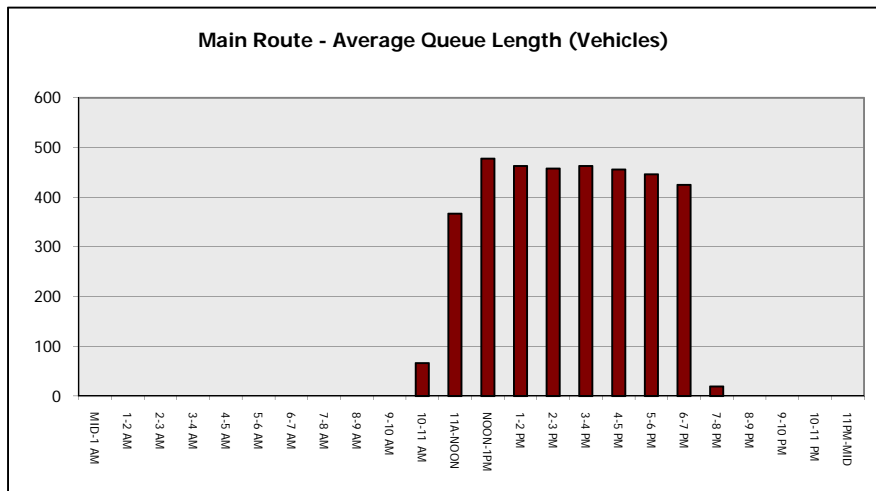
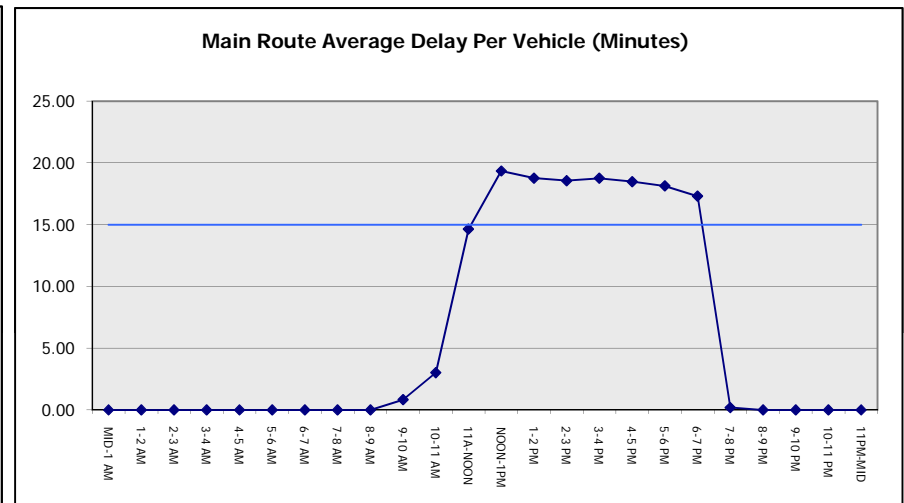
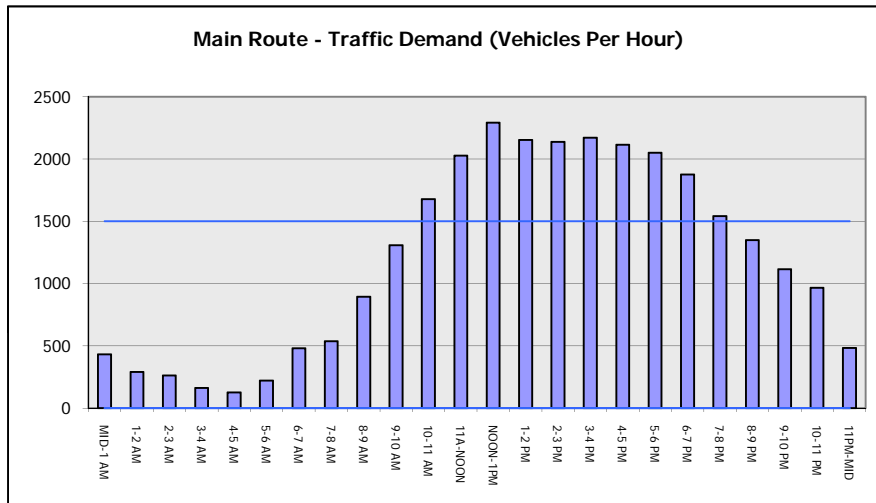
*Delays Exceeding 15 Minutes

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

MAY
 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	MAY
	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 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	452	0.0	269	0.0	OFF	452	0	269	0.00	0	70.2	70.2	70.2	38.4	38.4
1-2 AM	294	0.0	175	0.0	OFF	294	0	175	0.00	0	70.2	70.2	70.2	38.9	38.9
2-3 AM	261	0.0	155	0.0	OFF	261	0	155	0.00	0	70.2	70.2	70.2	38.9	38.9
3-4 AM	149	0.0	88	0.0	OFF	149	0	88	0.00	0	70.2	70.2	70.2	39.3	39.3
4-5 AM	135	0.0	81	0.0	OFF	135	0	81	0.00	0	70.2	70.2	70.2	39.3	39.3
5-6 AM	204	0.0	121	0.0	OFF	204	0	121	0.00	0	70.2	70.2	70.2	39.1	39.1
6-7 AM	381	0.0	226	0.0	OFF	381	0	226	0.00	0	70.2	70.2	70.2	38.6	38.6
7-8 AM	679	0.0	403	0.0	OFF	679	0	403	0.00	0	69.9	69.9	69.9	37.7	37.7
8-9 AM	1038	0.0	616	0.0	OFF	1038	0	616	0.00	0	69.4	69.4	69.4	36.6	36.6
9-10 AM	1572	0.0	933	0.0	1499	1572	0	933	1.69	22	68.8	28.9	31.2	35.0	35.0
10-11 AM	1922	0.0	1142	0.0	1500	1874	48	1190	10.80	277	68.4	8.6	30.8	33.8	34.0
11A-NOON	2113	0.0	1255	0.0	1499	1498	615	1870+	18.46	455	68.1	6.3	30.8	33.3	30.8
NOON-1PM	2350	0.0	1396	0.0	1499	1533	817	2213+	19.71	488	67.8	6.1	30.8	32.5	29.1
1-2 PM	2315	0.0	1375	0.0	1500	1490	825	2200+	19.66	486	67.9	6.1	30.8	32.7	29.2
2-3 PM	2333	0.0	1385	0.0	1499	1506	828	2213+	19.71	488	67.8	6.1	30.8	32.6	29.1
3-4 PM	2428	0.0	1442	0.0	1499	1514	914	2356+	20.27	502	67.7	6.1	30.8	32.4	28.4
4-5 PM	2354	0.0	1398	0.0	1500	1479	876	2274+	19.95	494	67.8	6.1	30.8	32.5	28.8
5-6 PM	2035	0.0	1209	0.0	1500	1451	585	1793+	18.21	448	68.2	6.4	30.8	33.5	31.2
6-7 PM	1759	0.0	1044	0.0	1499	1467	292	1336+	16.79	411	68.6	6.6	30.8	34.4	33.4
7-8 PM	1488	0.0	883	0.0	OFF	1488	0	883	0.19	17	68.9	59.7	59.7	35.2	35.2
8-9 PM	1160	0.0	689	0.0	OFF	1160	0	689	0.00	0	69.3	69.3	69.3	36.2	36.2
9-10 PM	850	0.0	504	0.0	OFF	850	0	504	0.00	0	69.7	69.7	69.7	37.1	37.1
10-11 PM	583	0.0	346	0.0	OFF	583	0	346	0.00	0	70.0	70.0	70.0	37.9	37.9
11PM-MID	410	0.0	244	0.0	OFF	410	0	244	0.00	0	70.2	70.2	70.2	38.5	38.5

"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	0.0065
MAIN ROUTE WITH WORKS	0.0042
DIVERSION	0.0358

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$120,685
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

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

