

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) CONTINUOUS (24 HOUR) 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	1500	431	0	256	0.53	0	70.2	48.7	43.8	38.4	38.4
1-2 AM	290	0.0	172	0.0	1500	290	0	172	0.51	0	70.2	49.2	44.3	38.9	38.9
2-3 AM	262	0.0	156	0.0	1500	262	0	156	0.50	0	70.2	49.4	44.5	38.9	38.9
3-4 AM	163	0.0	97	0.0	1500	163	0	97	0.49	0	70.2	49.7	44.8	39.2	39.2
4-5 AM	127	0.0	75	0.0	1500	127	0	75	0.49	0	70.2	49.8	45.0	39.4	39.4
5-6 AM	222	0.0	132	0.0	1500	222	0	132	0.50	0	70.2	49.5	44.6	39.1	39.1
6-7 AM	480	0.0	285	0.0	1500	480	0	285	0.53	0	70.1	48.6	43.6	38.3	38.3
7-8 AM	537	0.0	318	0.0	1500	537	0	318	0.54	0	70.0	48.4	43.3	38.1	38.1
8-9 AM	893	0.0	531	0.0	1500	893	0	531	0.58	0	69.6	47.1	42.0	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	1500	1451	92	1007	15.80	385	68.8	6.8	30.8	35.0	35.0
8-9 PM	1348	0.0	800	0.0	1499	1348	0	800	12.56	303	69.1	7.8	30.8	35.6	36.0
9-10 PM	1114	0.0	661	0.0	1499	1114	0	661	1.82	67	69.4	28.2	37.9	36.3	36.4
10-11 PM	965	0.0	572	0.0	1500	965	0	572	0.58	0	69.6	46.9	41.8	36.8	36.8
11PM-MID	484	0.0	288	0.0	1500	484	0	288	0.53	0	70.1	48.6	43.6	38.3	38.3

+ 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	0.0064
MAIN ROUTE WITH WORKS	0.0038
DIVERSION	0.0335

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$117,803
CONGESTED HOURS PER DAY*	8

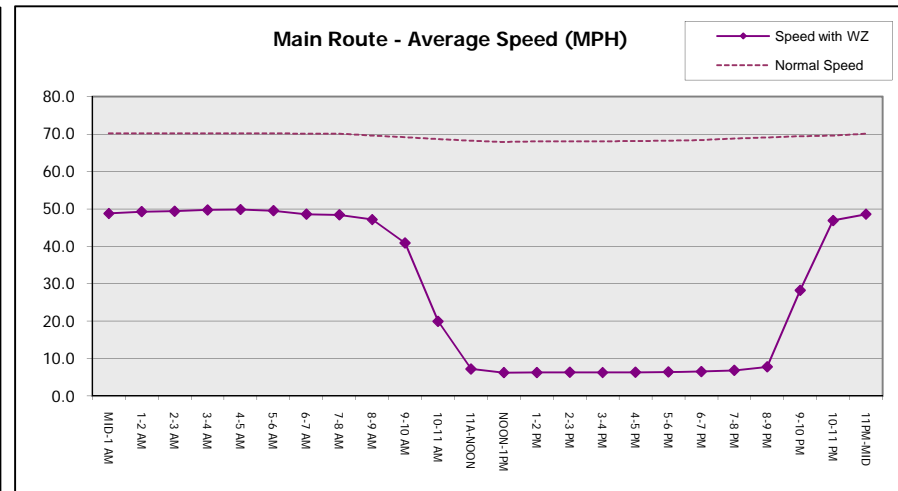
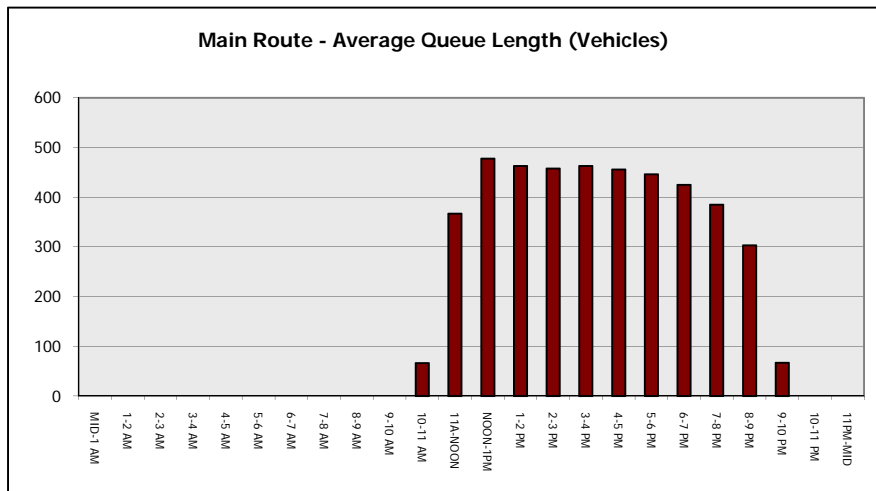
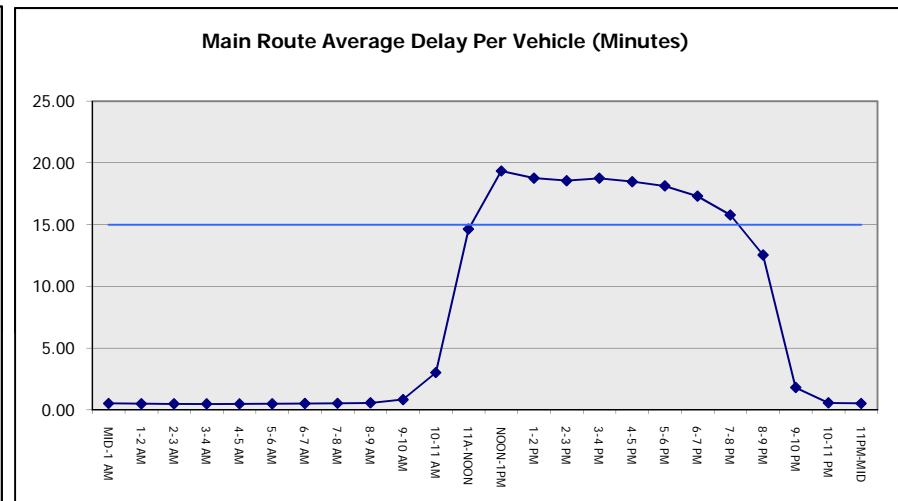
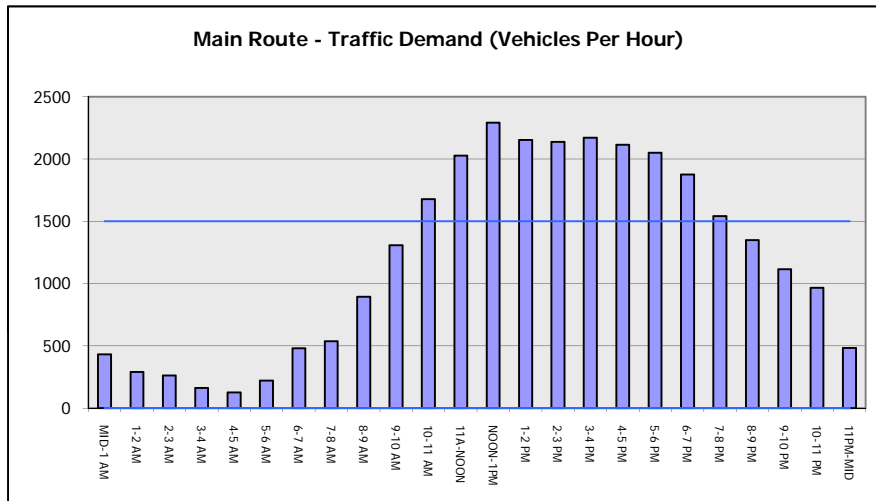
*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
CONTINUOUS (24 HOUR) 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) CONTINUOUS (24 HOUR) 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	1500	452	0	269	0.53	0	70.2	48.7	43.7	38.4	38.4
1-2 AM	294	0.0	175	0.0	1500	294	0	175	0.51	0	70.2	49.2	44.3	38.9	38.9
2-3 AM	261	0.0	155	0.0	1500	261	0	155	0.50	0	70.2	49.4	44.5	38.9	38.9
3-4 AM	149	0.0	88	0.0	1500	149	0	88	0.49	0	70.2	49.7	44.9	39.3	39.3
4-5 AM	135	0.0	81	0.0	1500	135	0	81	0.49	0	70.2	49.8	45.0	39.3	39.3
5-6 AM	204	0.0	121	0.0	1500	204	0	121	0.50	0	70.2	49.6	44.6	39.1	39.1
6-7 AM	381	0.0	226	0.0	1500	381	0	226	0.52	0	70.2	48.9	44.0	38.6	38.6
7-8 AM	679	0.0	403	0.0	1500	679	0	403	0.55	0	69.9	47.9	42.8	37.7	37.7
8-9 AM	1038	0.0	616	0.0	1499	1038	0	616	0.61	0	69.4	46.1	41.0	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	1499	1442	46	929	15.48	376	68.9	7.0	30.8	35.2	35.5
8-9 PM	1160	0.0	689	0.0	1499	1160	0	689	7.02	193	69.3	11.6	33.8	36.2	36.4
9-10 PM	850	0.0	504	0.0	1500	850	0	504	0.57	0	69.7	47.3	42.2	37.1	37.1
10-11 PM	583	0.0	346	0.0	1500	583	0	346	0.54	0	70.0	48.2	43.2	37.9	37.9
11PM-MID	410	0.0	244	0.0	1500	410	0	244	0.52	0	70.2	48.8	43.8	38.5	38.5

+ 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	0.0037
DIVERSION	0.0358

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$131,441
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
 CONTINUOUS (24 HOUR) 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

