

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	MAY
	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	243	0.0	144	0.0	3000	243	0	144	0.36	0	70.2	54.0	49.7	39.0	39.0
1-2 AM	165	0.0	98	0.0	3000	165	0	98	0.36	0	70.2	54.0	49.7	39.2	39.2
2-3 AM	150	0.0	89	0.0	3000	150	0	89	0.36	0	70.2	54.0	49.7	39.3	39.3
3-4 AM	177	0.0	105	0.0	3000	177	0	105	0.36	0	70.2	54.0	49.7	39.2	39.2
4-5 AM	310	0.0	184	0.0	3000	310	0	184	0.36	0	70.2	54.0	49.7	38.8	38.8
5-6 AM	1122	0.0	667	0.0	3000	1122	0	667	0.35	0	69.4	53.8	49.7	36.3	36.3
6-7 AM	3103	0.0	1843	0.0	2999	3103	0	1843+	1.23	50	66.9	33.8	38.9	30.2	30.3
7-8 AM	3548	0.0	2106	0.0	3000	3548	0	2106+	9.22	490	66.3	11.9	37.3	28.9	29.7
8-9 AM	2682	0.0	1593	0.0	2999	2682	0	1593+	12.20	636	67.4	10.5	37.3	31.5	32.6
9-10 AM	2116	0.0	1257	0.0	2999	2116	0	1257+	1.27	116	68.1	35.2	47.7	33.3	33.4
10-11 AM	2030	0.0	1205	0.0	3000	2030	0	1205+	0.33	0	68.2	53.7	49.7	33.5	33.5
11A-NOON	2066	0.0	1226	0.0	3000	2066	0	1226+	0.33	0	68.2	53.6	49.7	33.4	33.4
NOON-1PM	2241	0.0	1331	0.0	3000	2241	0	1331+	0.33	0	67.9	53.6	49.7	32.9	32.9
1-2 PM	2251	0.0	1337	0.0	3000	2251	0	1337+	0.33	0	67.9	53.6	49.7	32.9	32.9
2-3 PM	2332	0.0	1384	0.0	3000	2332	0	1384+	0.33	0	67.8	53.6	49.7	32.6	32.6
3-4 PM	2549	0.0	1513	0.0	3000	2549	0	1513+	0.43	0	67.6	50.1	45.6	32.0	32.0
4-5 PM	2771	0.0	1645	0.0	3000	2771	0	1645+	0.58	0	67.3	46.0	41.1	31.3	31.3
5-6 PM	2532	0.0	1504	0.0	3000	2532	0	1504+	0.42	0	67.6	50.4	46.0	32.0	32.0
6-7 PM	1988	0.0	1180	0.0	3000	1988	0	1180	0.33	0	68.2	53.7	49.7	33.7	33.7
7-8 PM	1477	0.0	877	0.0	3000	1477	0	877	0.34	0	68.9	53.7	49.7	35.2	35.2
8-9 PM	1287	0.0	764	0.0	3000	1287	0	764	0.35	0	69.1	53.8	49.7	35.8	35.8
9-10 PM	1097	0.0	652	0.0	3000	1097	0	652	0.35	0	69.4	53.8	49.7	36.4	36.4
10-11 PM	761	0.0	452	0.0	3000	761	0	452	0.35	0	69.8	53.9	49.7	37.4	37.4
11PM-MID	460	0.0	273	0.0	3000	460	0	273	0.36	0	70.2	54.0	49.7	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	0.0088
MAIN ROUTE WITH WORKS	0.0062
DIVERSION	0.0362

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$18,933
CONGESTED HOURS PER DAY*	0

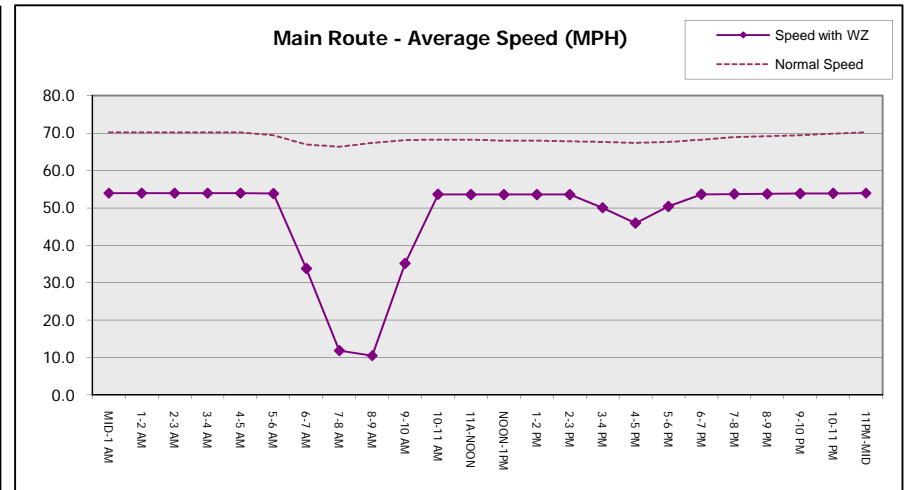
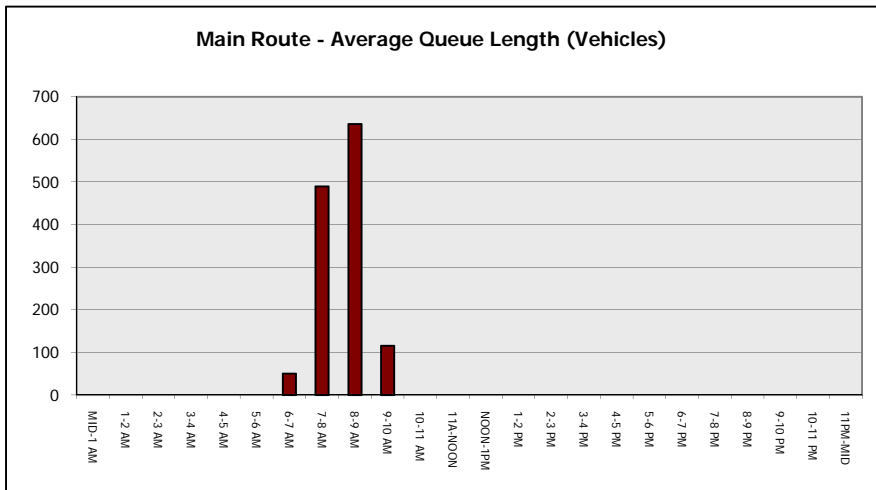
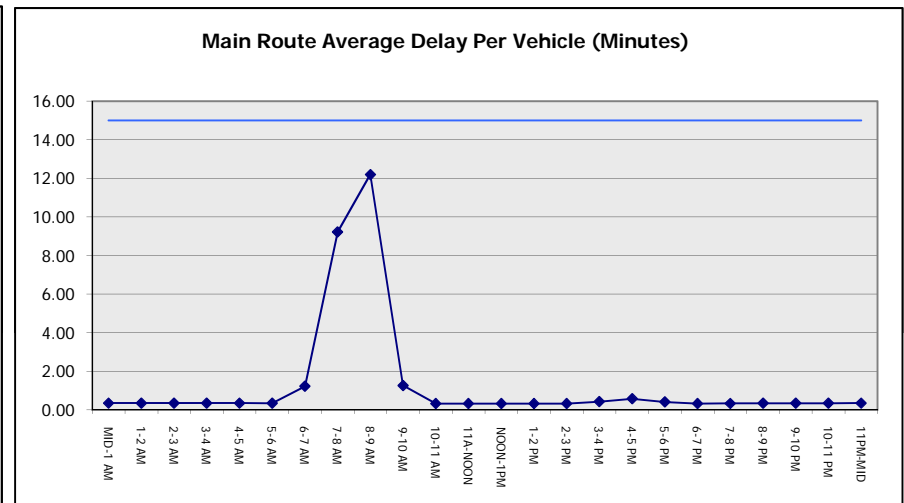
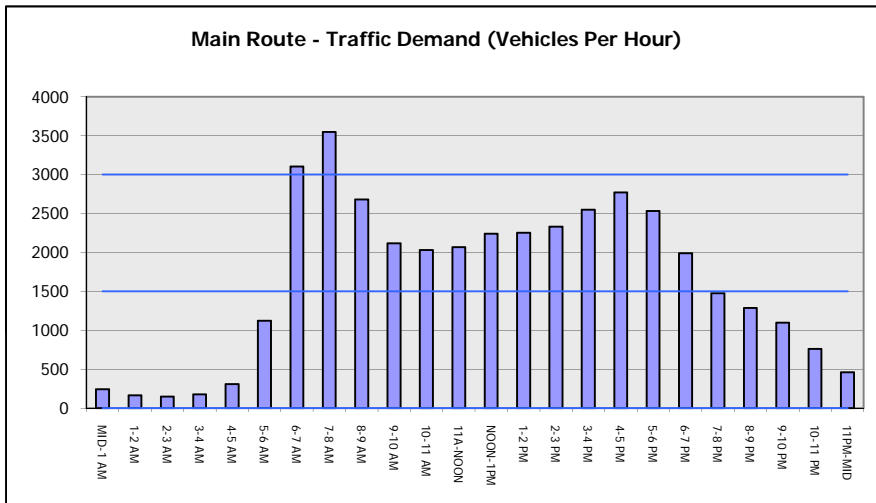
*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51

MAY
 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) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51	MAY
	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						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	249	0.0	148	0.0	3000	249	0	148	0.36	0	70.2	54.0	49.7	39.0	39.0
1-2 AM	168	0.0	99	0.0	3000	168	0	99	0.36	0	70.2	54.0	49.7	39.2	39.2
2-3 AM	142	0.0	85	0.0	3000	142	0	85	0.36	0	70.2	54.0	49.7	39.3	39.3
3-4 AM	145	0.0	87	0.0	3000	145	0	87	0.36	0	70.2	54.0	49.7	39.3	39.3
4-5 AM	306	0.0	182	0.0	3000	306	0	182	0.36	0	70.2	54.0	49.7	38.8	38.8
5-6 AM	864	0.0	513	0.0	3000	864	0	513	0.35	0	69.7	53.8	49.7	37.1	37.1
6-7 AM	2000	0.0	1188	0.0	3000	2000	0	1188	0.33	0	68.2	53.7	49.7	33.7	33.7
7-8 AM	2803	0.0	1665	0.0	3000	2803	0	1665+	0.60	0	67.3	45.4	40.5	31.2	31.2
8-9 AM	2321	0.0	1378	0.0	3000	2321	0	1378+	0.33	0	67.9	53.6	49.7	32.7	32.7
9-10 AM	1933	0.0	1148	0.0	3000	1933	0	1148	0.34	0	68.3	53.7	49.7	33.8	33.8
10-11 AM	2003	0.0	1190	0.0	3000	2003	0	1190	0.33	0	68.2	53.7	49.7	33.6	33.6
11A-NOON	2252	0.0	1337	0.0	3000	2252	0	1337+	0.33	0	67.9	53.6	49.7	32.9	32.9
NOON-1PM	2349	0.0	1395	0.0	3000	2349	0	1395+	0.33	0	67.8	53.6	49.7	32.6	32.6
1-2 PM	2437	0.0	1447	0.0	3000	2437	0	1447+	0.36	0	67.7	52.4	48.4	32.3	32.3
2-3 PM	2840	0.0	1687	0.0	2999	2840	0	1687+	0.62	0	67.2	44.9	40.0	31.1	31.1
3-4 PM	3505	0.0	2081	0.0	2999	3505	0	2081+	4.02	220	66.4	18.1	37.3	29.1	29.3
4-5 PM	3880	0.0	2304	0.0	3000	3768	112	2416+	17.25	937	64.3	9.4	37.3	27.9	29.1
5-6 PM	3427	0.0	2035	0.0	2999	2791	636	2671+	22.26	1188	66.4	8.6	37.3	29.2	28.1
6-7 PM	2240	0.0	1330	0.0	2999	2198	43	1373+	12.80	706	67.9	10.6	40.5	32.9	33.8
7-8 PM	1601	0.0	951	0.0	3000	1601	0	951	0.55	26	68.7	47.7	49.7	34.8	34.9
8-9 PM	1386	0.0	824	0.0	3000	1386	0	824	0.34	0	69.0	53.8	49.7	35.5	35.5
9-10 PM	1096	0.0	651	0.0	3000	1096	0	651	0.35	0	69.4	53.8	49.7	36.4	36.4
10-11 PM	794	0.0	472	0.0	3000	794	0	472	0.35	0	69.7	53.9	49.7	37.3	37.3
11PM-MID	473	0.0	280	0.0	3000	473	0	280	0.36	0	70.2	54.0	49.7	38.3	38.3

+ 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	0.0063
DIVERSION	0.0390

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$45,304
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

