

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

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	OFF	243	0	144	0.00	0	70.2	70.2	70.2	39.0	39.0
1-2 AM	165	0.0	98	0.0	OFF	165	0	98	0.00	0	70.2	70.2	70.2	39.2	39.2
2-3 AM	150	0.0	89	0.0	OFF	150	0	89	0.00	0	70.2	70.2	70.2	39.3	39.3
3-4 AM	177	0.0	105	0.0	OFF	177	0	105	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	310	0.0	184	0.0	OFF	310	0	184	0.00	0	70.2	70.2	70.2	38.8	38.8
5-6 AM	1122	0.0	667	0.0	OFF	1122	0	667	0.00	0	69.4	69.4	69.4	36.3	36.3
6-7 AM	3103	0.0	1843	0.0	OFF	3103	0	1843+	0.00	0	66.9	66.9	66.9	30.2	30.2
7-8 AM	3548	0.0	2106	0.0	OFF	3548	0	2106+	0.00	0	66.3	66.3	66.3	28.9	28.9
8-9 AM	2682	0.0	1593	0.0	OFF	2682	0	1593+	0.00	0	67.4	67.4	67.4	31.5	31.5
9-10 AM	2116	0.0	1257	0.0	OFF	2116	0	1257+	0.00	0	68.1	68.1	68.1	33.3	33.3
10-11 AM	2030	0.0	1205	0.0	1499	1968	62	1267+	9.56	256	68.2	9.4	30.8	33.5	33.5
11A-NOON	2066	0.0	1226	0.0	1499	1483	582	1809+	18.25	449	68.2	6.4	30.8	33.4	31.1
NOON-1PM	2241	0.0	1331	0.0	1499	1526	715	2046+	19.08	471	67.9	6.2	30.8	32.9	29.9
1-2 PM	2251	0.0	1337	0.0	1500	1500	751	2088+	19.24	475	67.9	6.2	30.8	32.9	29.7
2-3 PM	2332	0.0	1384	0.0	1500	1517	815	2199+	19.66	486	67.8	6.1	30.8	32.6	29.2
3-4 PM	2549	0.0	1513	0.0	OFF	2549	0	1513+	0.37	35	67.6	52.2	52.2	32.0	32.0
4-5 PM	2771	0.0	1645	0.0	OFF	2771	0	1645+	0.00	0	67.3	67.3	67.3	31.3	31.3
5-6 PM	2532	0.0	1504	0.0	OFF	2532	0	1504+	0.00	0	67.6	67.6	67.6	32.0	32.0
6-7 PM	1988	0.0	1180	0.0	OFF	1988	0	1180	0.00	0	68.2	68.2	68.2	33.7	33.7
7-8 PM	1477	0.0	877	0.0	OFF	1477	0	877	0.00	0	68.9	68.9	68.9	35.2	35.2
8-9 PM	1287	0.0	764	0.0	OFF	1287	0	764	0.00	0	69.1	69.1	69.1	35.8	35.8
9-10 PM	1097	0.0	652	0.0	OFF	1097	0	652	0.00	0	69.4	69.4	69.4	36.4	36.4
10-11 PM	761	0.0	452	0.0	OFF	761	0	452	0.00	0	69.8	69.8	69.8	37.4	37.4
11PM-MID	460	0.0	273	0.0	OFF	460	0	273	0.00	0	70.2	70.2	70.2	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 (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	0.0076
DIVERSION	0.0407

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$51,906
CONGESTED HOURS PER DAY*	4

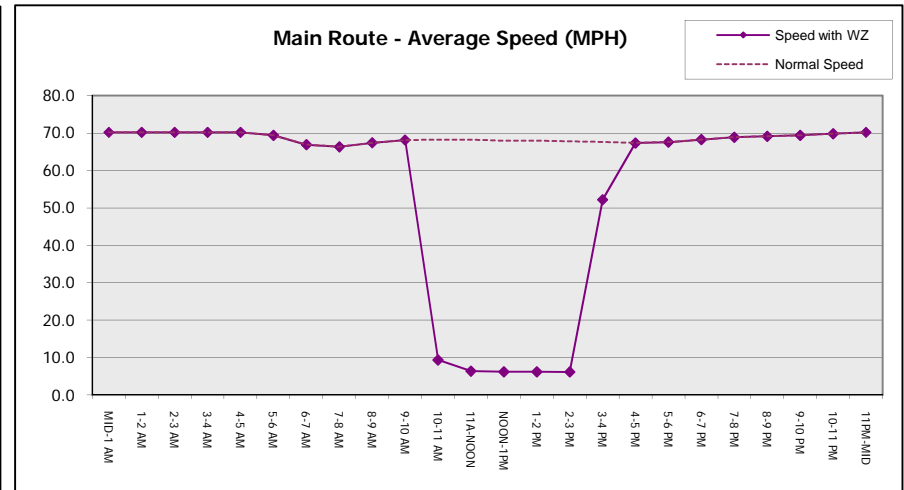
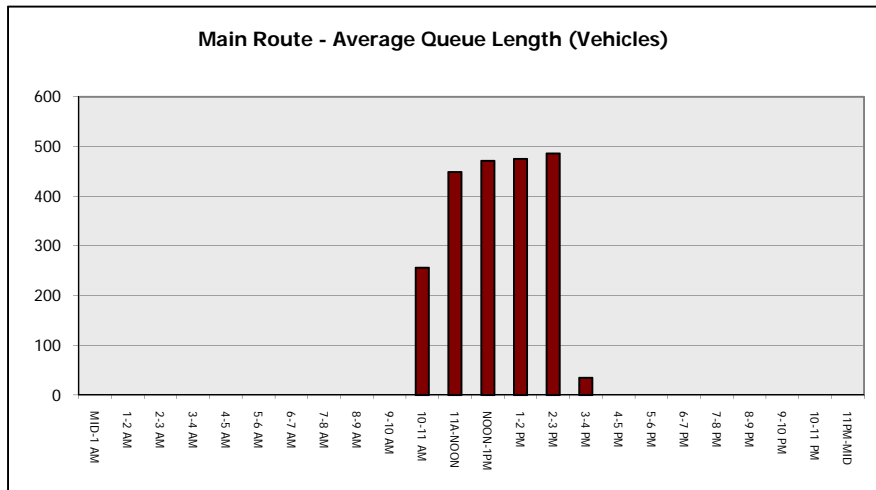
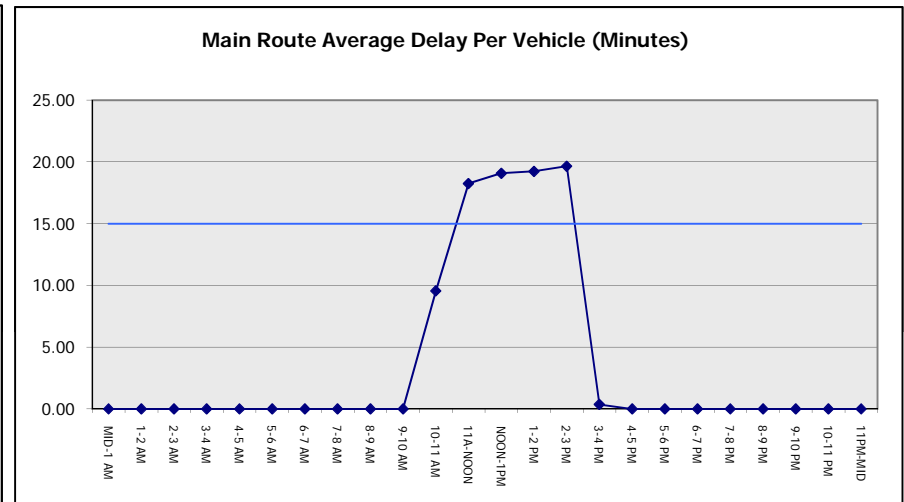
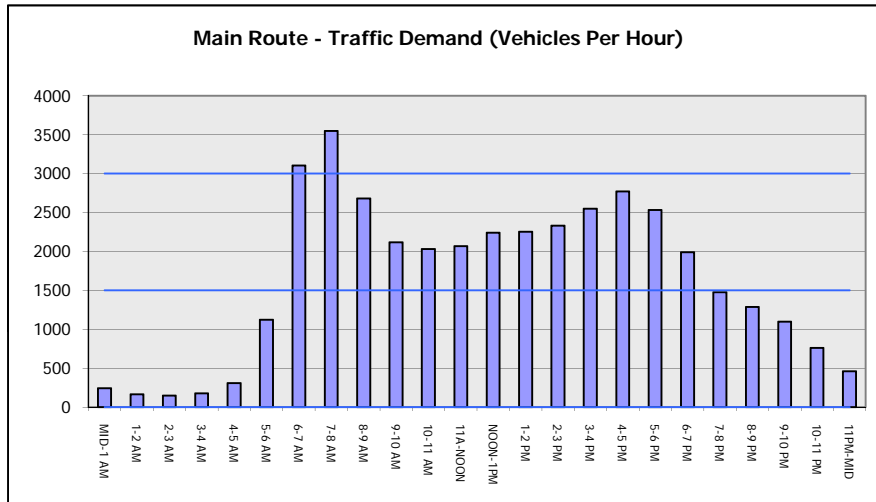
*Delays Exceeding 15 Minutes

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

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) 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

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	OFF	249	0	148	0.00	0	70.2	70.2	70.2	39.0	39.0	
1-2 AM	168	0.0	99	0.0	OFF	168	0	99	0.00	0	70.2	70.2	70.2	39.2	39.2	
2-3 AM	142	0.0	85	0.0	OFF	142	0	85	0.00	0	70.2	70.2	70.2	39.3	39.3	
3-4 AM	145	0.0	87	0.0	OFF	145	0	87	0.00	0	70.2	70.2	70.2	39.3	39.3	
4-5 AM	306	0.0	182	0.0	OFF	306	0	182	0.00	0	70.2	70.2	70.2	38.8	38.8	
5-6 AM	864	0.0	513	0.0	OFF	864	0	513	0.00	0	69.7	69.7	69.7	37.1	37.1	
6-7 AM	2000	0.0	1188	0.0	OFF	2000	0	1188	0.00	0	68.2	68.2	68.2	33.7	33.7	
7-8 AM	2803	0.0	1665	0.0	OFF	2803	0	1665+	0.00	0	67.3	67.3	67.3	31.2	31.2	
8-9 AM	2321	0.0	1378	0.0	OFF	2321	0	1378+	0.00	0	67.9	67.9	67.9	32.7	32.7	
9-10 AM	1933	0.0	1148	0.0	OFF	1933	0	1148	0.00	0	68.3	68.3	68.3	33.8	33.8	
10-11 AM	2003	0.0	1190	0.0	OFF	1499	1992	11	1201+	8.75	239	68.2	10.0	30.8	33.6	33.8
11A-NOON	2252	0.0	1337	0.0	OFF	1499	1490	761	2099+	19.28	476	67.9	6.2	30.8	32.9	29.7
NOON-1PM	2349	0.0	1395	0.0	OFF	1500	1513	837	2231+	19.78	489	67.8	6.1	30.8	32.6	29.0
1-2 PM	2437	0.0	1447	0.0	OFF	1500	1522	915	2362+	20.30	503	67.7	6.1	30.8	32.3	28.4
2-3 PM	2840	0.0	1687	0.0	OFF	1500	1612	1228	2915+	22.99	575	67.2	5.7	30.8	31.1	25.6
3-4 PM	3505	0.0	2081	0.0	OFF	3505	0	0	2081+	0.87	79	66.4	39.3	39.3	29.1	29.1
4-5 PM	3880	0.0	2304	0.0	OFF	3880	0	0	2304+	0.00	0	64.3	64.3	64.3	27.9	27.9
5-6 PM	3427	0.0	2035	0.0	OFF	3427	0	0	2035+	0.00	0	66.4	66.4	66.4	29.2	29.2
6-7 PM	2240	0.0	1330	0.0	OFF	2240	0	0	1330+	0.00	0	67.9	67.9	67.9	32.9	32.9
7-8 PM	1601	0.0	951	0.0	OFF	1601	0	951	0.00	0	68.7	68.7	68.7	34.8	34.8	
8-9 PM	1386	0.0	824	0.0	OFF	1386	0	824	0.00	0	69.0	69.0	69.0	35.5	35.5	
9-10 PM	1096	0.0	651	0.0	OFF	1096	0	651	0.00	0	69.4	69.4	69.4	36.4	36.4	
10-11 PM	794	0.0	472	0.0	OFF	794	0	472	0.00	0	69.7	69.7	69.7	37.3	37.3	
11PM-MID	473	0.0	280	0.0	OFF	473	0	280	0.00	0	70.2	70.2	70.2	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	0.0092
MAIN ROUTE WITH WORKS	0.0078
DIVERSION	0.0436

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$61,538
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

MAY
 Analyzed for 2009
 Construction Season

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

