

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	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	426	0.0	253	0.0	OFF	426	0	253	0.00	0	70.2	70.2	70.2	38.4	38.4
1-2 AM	263	0.0	156	0.0	OFF	263	0	156	0.00	0	70.2	70.2	70.2	38.9	38.9
2-3 AM	178	0.0	106	0.0	OFF	178	0	106	0.00	0	70.2	70.2	70.2	39.2	39.2
3-4 AM	180	0.0	107	0.0	OFF	180	0	107	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	302	0.0	179	0.0	OFF	302	0	179	0.00	0	70.2	70.2	70.2	38.8	38.8
5-6 AM	1104	0.0	655	0.0	OFF	1104	0	655	0.00	0	69.4	69.4	69.4	36.4	36.4
6-7 AM	2887	0.0	1715	0.0	OFF	2887	0	1715+	0.00	0	67.1	67.1	67.1	30.9	30.9
7-8 AM	3913	0.0	2324	0.0	OFF	3913	0	2324+	0.00	0	64.1	64.1	64.1	27.8	27.8
8-9 AM	3068	0.0	1822	0.0	OFF	3068	0	1822+	0.00	0	66.9	66.9	66.9	30.4	30.4
9-10 AM	2481	0.0	1473	0.0	OFF	2481	0	1473+	0.00	0	67.6	67.6	67.6	32.2	32.2
10-11 AM	2390	0.0	1420	0.0	1499	2001	389	1809+	13.49	353	67.8	7.6	30.8	32.4	30.9
11A-NOON	2614	0.0	1552	0.0	1500	1547	1066	2618+	21.41	532	67.5	5.9	30.8	31.8	27.1
NOON-1PM	2735	0.0	1624	0.0	1500	1524	1212	2835+	22.54	562	67.3	5.8	30.8	31.4	26.0
1-2 PM	2797	0.0	1661	0.0	1500	1515	1282	2942+	23.16	579	67.3	5.7	30.8	31.2	25.4
2-3 PM	2914	0.0	1731	0.0	1500	1534	1380	3110+	24.20	606	67.1	5.6	30.8	30.9	24.5
3-4 PM	3059	0.0	1817	0.0	OFF	3059	0	1817+	0.68	65	66.9	43.3	43.3	30.4	30.4
4-5 PM	3096	0.0	1838	0.0	OFF	3096	0	1838+	0.00	0	66.9	66.9	66.9	30.3	30.3
5-6 PM	2967	0.0	1762	0.0	OFF	2967	0	1762+	0.00	0	67.1	67.1	67.1	30.7	30.7
6-7 PM	2419	0.0	1437	0.0	OFF	2419	0	1437+	0.00	0	67.8	67.8	67.8	32.4	32.4
7-8 PM	1864	0.0	1107	0.0	OFF	1864	0	1107	0.00	0	68.4	68.4	68.4	34.0	34.0
8-9 PM	1580	0.0	939	0.0	OFF	1580	0	939	0.00	0	68.7	68.7	68.7	34.9	34.9
9-10 PM	1415	0.0	840	0.0	OFF	1415	0	840	0.00	0	69.0	69.0	69.0	35.4	35.4
10-11 PM	1075	0.0	638	0.0	OFF	1075	0	638	0.00	0	69.4	69.4	69.4	36.5	36.5
11PM-MID	785	0.0	466	0.0	OFF	785	0	466	0.00	0	69.7	69.7	69.7	37.3	37.3

"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	0.0103
MAIN ROUTE WITH WORKS	0.0086
DIVERSION	0.0509

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$84,003
CONGESTED HOURS PER DAY*	4

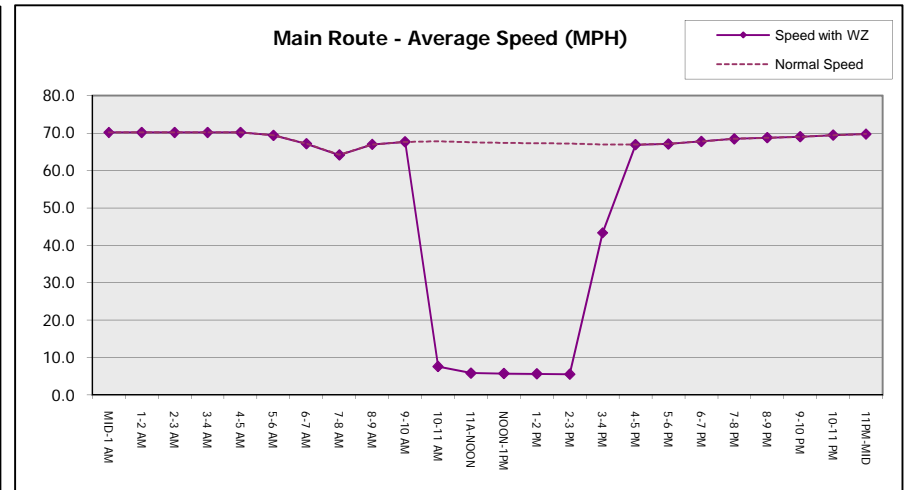
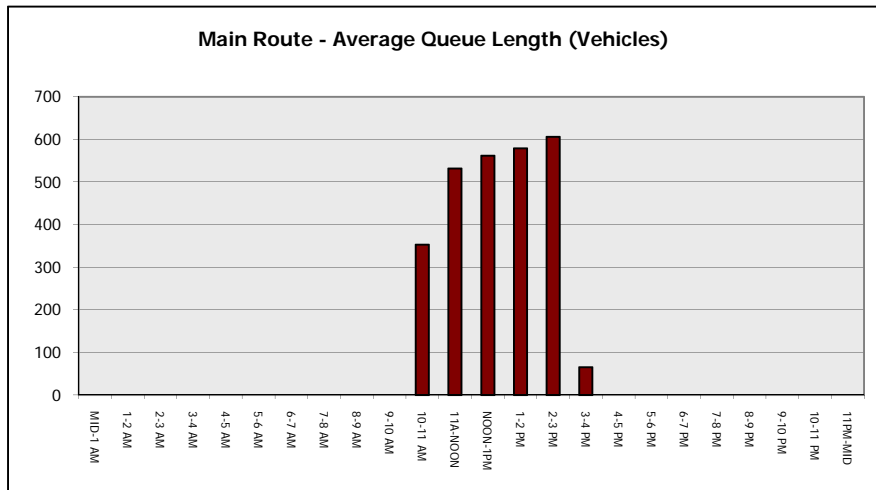
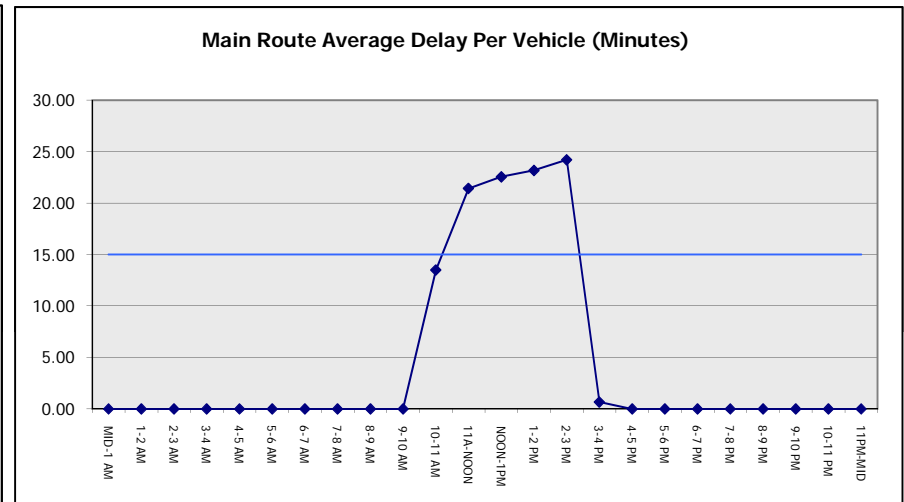
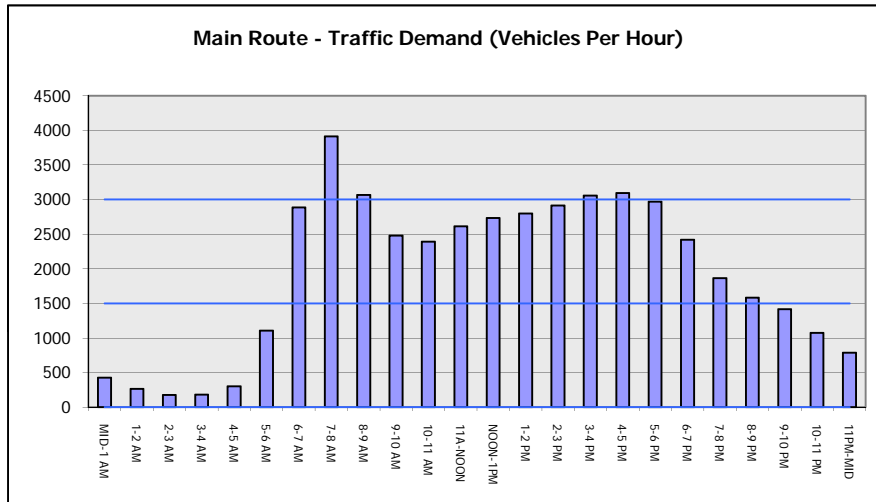
*Delays Exceeding 15 Minutes

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

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY 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	AUGUST Analyzed for 2009 Construction Season
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SUMMARY OF TRAFFIC MODEL OUTPUT	
FRIDAY	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	328	0.0	195	0.0	OFF	328	0	195	0.00	0	70.2	70.2	70.2	38.8	38.8	
1-2 AM	230	0.0	136	0.0	OFF	230	0	136	0.00	0	70.2	70.2	70.2	39.1	39.1	
2-3 AM	204	0.0	121	0.0	OFF	204	0	121	0.00	0	70.2	70.2	70.2	39.1	39.1	
3-4 AM	181	0.0	108	0.0	OFF	181	0	108	0.00	0	70.2	70.2	70.2	39.2	39.2	
4-5 AM	314	0.0	186	0.0	OFF	314	0	186	0.00	0	70.2	70.2	70.2	38.8	38.8	
5-6 AM	796	0.0	473	0.0	OFF	796	0	473	0.00	0	69.7	69.7	69.7	37.3	37.3	
6-7 AM	1869	0.0	1110	0.0	OFF	1869	0	1110	0.00	0	68.4	68.4	68.4	34.0	34.0	
7-8 AM	2692	0.0	1599	0.0	OFF	2692	0	1599+	0.00	0	67.4	67.4	67.4	31.5	31.5	
8-9 AM	2345	0.0	1393	0.0	OFF	2345	0	1393+	0.00	0	67.8	67.8	67.8	32.6	32.6	
9-10 AM	2205	0.0	1309	0.0	OFF	2205	0	1309+	0.00	0	68.0	68.0	68.0	33.0	33.0	
10-11 AM	2400	0.0	1425	0.0	OFF	1499	2011	389	1814+	13.24	350	67.8	7.8	30.8	32.4	30.9
11A-NOON	2743	0.0	1629	0.0	OFF	1500	1580	1163	2792+	22.31	556	67.3	5.8	30.8	31.4	26.2
NOON-1PM	3116	0.0	1851	0.0	OFF	1500	1599	1517	3368+	25.94	652	66.9	5.5	30.8	30.2	23.1
1-2 PM	3177	0.0	1887	0.0	OFF	1500	1518	1659	3545+	27.32	688	66.8	5.3	30.8	30.1	22.1
2-3 PM	3509	0.0	2083	0.0	OFF	1500	1639	1870	3953+	30.47	772	66.4	5.1	30.8	29.0	20.2
3-4 PM	4069	0.0	2416	0.0	OFF	4069	0	2416+	1.99	185	63.0	25.2	25.2	27.3	27.3	
4-5 PM	4084	0.0	2426	0.0	OFF	4084	0	2426+	0.00	0	63.0	63.0	63.0	27.3	27.3	
5-6 PM	3617	0.0	2148	0.0	OFF	3617	0	2148+	0.00	0	66.1	66.1	66.1	28.7	28.7	
6-7 PM	2486	0.0	1476	0.0	OFF	2486	0	1476+	0.00	0	67.6	67.6	67.6	32.2	32.2	
7-8 PM	1780	0.0	1057	0.0	OFF	1780	0	1057	0.00	0	68.5	68.5	68.5	34.3	34.3	
8-9 PM	1524	0.0	905	0.0	OFF	1524	0	905	0.00	0	68.9	68.9	68.9	35.1	35.1	
9-10 PM	1355	0.0	805	0.0	OFF	1355	0	805	0.00	0	69.1	69.1	69.1	35.6	35.6	
10-11 PM	1092	0.0	649	0.0	OFF	1092	0	649	0.00	0	69.4	69.4	69.4	36.4	36.4	
11PM-MID	752	0.0	447	0.0	OFF	752	0	447	0.00	0	69.8	69.8	69.8	37.4	37.4	

"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	0.0104
MAIN ROUTE WITH WORKS	0.0084
DIVERSION	0.0531

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$109,850
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

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

