

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

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	298	0.0	177	0.0	OFF	298	0	177	0.00	0	70.2	70.2	70.2	38.8	38.8
1-2 AM	209	0.0	125	0.0	OFF	209	0	125	0.00	0	70.2	70.2	70.2	39.1	39.1
2-3 AM	176	0.0	105	0.0	OFF	176	0	105	0.00	0	70.2	70.2	70.2	39.2	39.2
3-4 AM	184	0.0	110	0.0	OFF	184	0	110	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	339	0.0	202	0.0	OFF	339	0	202	0.00	0	70.2	70.2	70.2	38.7	38.7
5-6 AM	1197	0.0	710	0.0	OFF	1197	0	710	0.00	0	69.2	69.2	69.2	36.1	36.1
6-7 AM	3136	0.0	1863	0.0	OFF	3136	0	1863+	0.00	0	66.8	66.8	66.8	30.2	30.2
7-8 AM	4204	0.0	2497	0.0	OFF	4204	0	2497+	0.00	0	62.2	62.2	62.2	26.9	26.9
8-9 AM	3250	0.0	1930	0.0	OFF	3250	0	1930+	0.00	0	66.7	66.7	66.7	29.8	29.8
9-10 AM	2522	0.0	1497	0.0	OFF	2522	0	1497+	0.00	0	67.6	67.6	67.6	32.0	32.0
10-11 AM	2276	0.0	1352	0.0	1499	1974	302	1654+	12.65	331	67.9	7.9	30.8	32.8	31.7
11A-NOON	2308	0.0	1371	0.0	1500	1513	795	2166+	19.53	483	67.9	6.1	30.8	32.7	29.4
NOON-1PM	2408	0.0	1429	0.0	1499	1516	891	2321+	20.13	499	67.8	6.1	30.8	32.4	28.6
1-2 PM	2433	0.0	1445	0.0	1500	1504	929	2374+	20.35	504	67.7	6.0	30.8	32.3	28.3
2-3 PM	2514	0.0	1493	0.0	1500	1520	994	2488+	20.83	517	67.6	6.0	30.8	32.0	27.8
3-4 PM	2764	0.0	1642	0.0	OFF	2764	0	1642+	0.44	43	67.3	49.7	49.7	31.3	31.3
4-5 PM	3025	0.0	1797	0.0	OFF	3025	0	1797+	0.00	0	66.9	66.9	66.9	30.5	30.5
5-6 PM	2811	0.0	1669	0.0	OFF	2811	0	1669+	0.00	0	67.3	67.3	67.3	31.2	31.2
6-7 PM	1990	0.0	1181	0.0	OFF	1990	0	1181	0.00	0	68.2	68.2	68.2	33.7	33.7
7-8 PM	1488	0.0	884	0.0	OFF	1488	0	884	0.00	0	68.9	68.9	68.9	35.2	35.2
8-9 PM	1312	0.0	780	0.0	OFF	1312	0	780	0.00	0	69.1	69.1	69.1	35.7	35.7
9-10 PM	1124	0.0	668	0.0	OFF	1124	0	668	0.00	0	69.4	69.4	69.4	36.3	36.3
10-11 PM	850	0.0	504	0.0	OFF	850	0	504	0.00	0	69.7	69.7	69.7	37.1	37.1
11PM-MID	556	0.0	330	0.0	OFF	556	0	330	0.00	0	70.0	70.0	70.0	38.1	38.1

"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	0.0097
MAIN ROUTE WITH WORKS	0.0083
DIVERSION	0.0458

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$63,030
CONGESTED HOURS PER DAY*	4

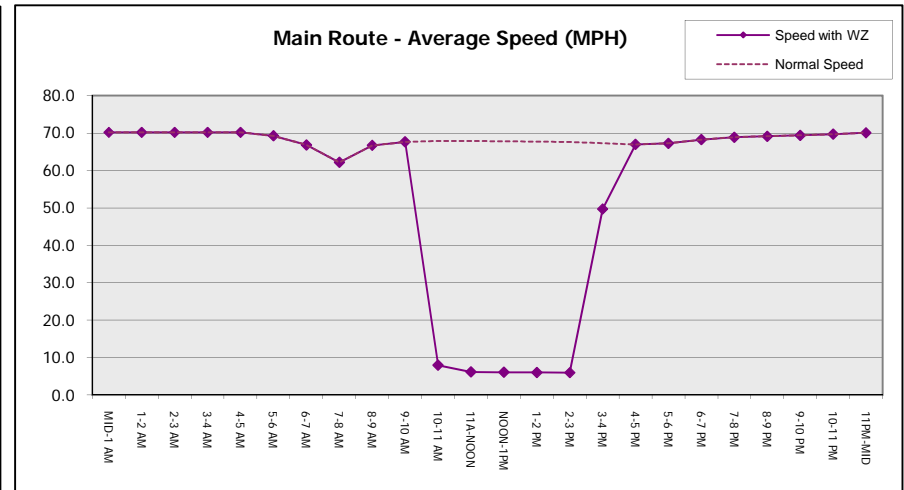
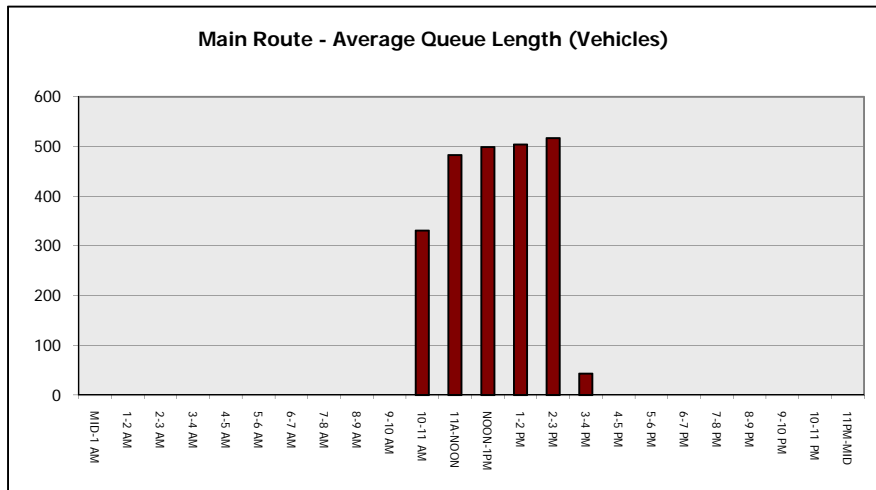
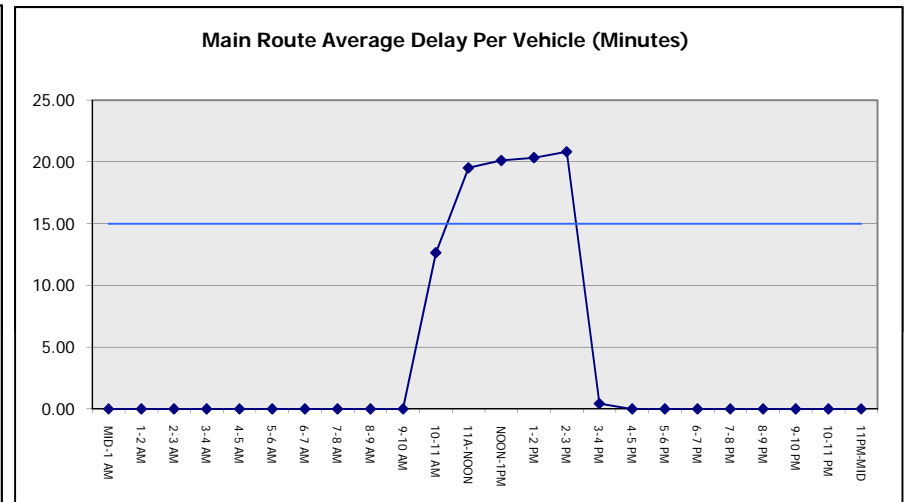
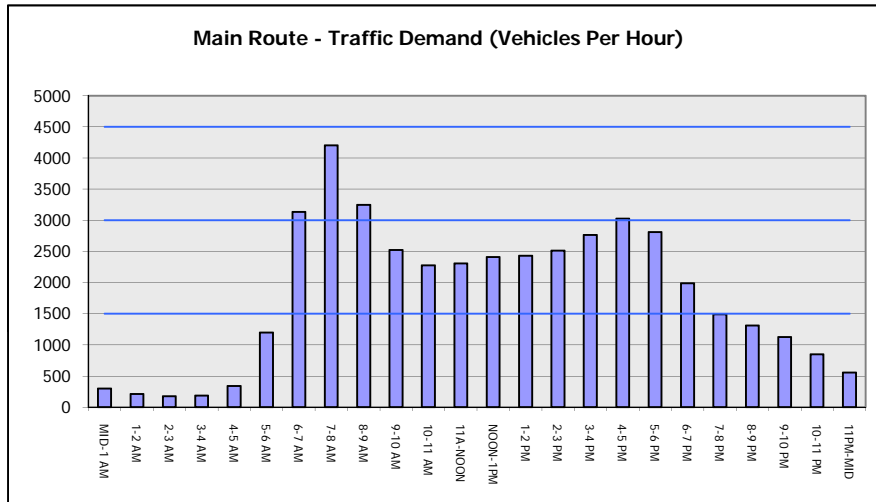
*Delays Exceeding 15 Minutes

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

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	AUGUST Analyzed for 2009 Construction Season
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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	279	0.0	165	0.0	OFF	279	0	165	0.00	0	70.2	70.2	70.2	38.9	38.9
1-2 AM	180	0.0	107	0.0	OFF	180	0	107	0.00	0	70.2	70.2	70.2	39.2	39.2
2-3 AM	157	0.0	93	0.0	OFF	157	0	93	0.00	0	70.2	70.2	70.2	39.2	39.2
3-4 AM	154	0.0	91	0.0	OFF	154	0	91	0.00	0	70.2	70.2	70.2	39.2	39.2
4-5 AM	322	0.0	191	0.0	OFF	322	0	191	0.00	0	70.2	70.2	70.2	38.8	38.8
5-6 AM	878	0.0	521	0.0	OFF	878	0	521	0.00	0	69.6	69.6	69.6	37.1	37.1
6-7 AM	1990	0.0	1182	0.0	OFF	1990	0	1182	0.00	0	68.2	68.2	68.2	33.7	33.7
7-8 AM	2915	0.0	1731	0.0	OFF	2915	0	1731+	0.00	0	67.1	67.1	67.1	30.9	30.9
8-9 AM	2453	0.0	1457	0.0	OFF	2453	0	1457+	0.00	0	67.7	67.7	67.7	32.2	32.2
9-10 AM	2048	0.0	1216	0.0	OFF	2048	0	1216+	0.00	0	68.2	68.2	68.2	33.5	33.5
10-11 AM	2157	0.0	1281	0.0	1499	1973	184	1464+	10.69	289	68.1	8.8	30.8	33.2	32.6
11A-NOON	2430	0.0	1443	0.0	1499	1540	890	2333+	20.18	500	67.7	6.1	30.8	32.4	28.5
NOON-1PM	2513	0.0	1493	0.0	1500	1510	1003	2496+	20.87	518	67.6	6.0	30.8	32.0	27.8
1-2 PM	2573	0.0	1528	0.0	1500	1520	1053	2580+	21.24	528	67.6	6.0	30.8	31.9	27.3
2-3 PM	2991	0.0	1776	0.0	1500	1632	1358	3134+	24.33	610	67.0	5.6	30.8	30.6	24.4
3-4 PM	3685	0.0	2188	0.0	OFF	3685	0	2188+	1.08	98	65.7	35.5	35.5	28.5	28.5
4-5 PM	4062	0.0	2412	0.0	OFF	4062	0	2412+	0.00	0	63.1	63.1	63.1	27.3	27.3
5-6 PM	3727	0.0	2213	0.0	OFF	3727	0	2213+	0.00	0	65.4	65.4	65.4	28.4	28.4
6-7 PM	2400	0.0	1425	0.0	OFF	2400	0	1425+	0.00	0	67.8	67.8	67.8	32.4	32.4
7-8 PM	1719	0.0	1021	0.0	OFF	1719	0	1021	0.00	0	68.6	68.6	68.6	34.5	34.5
8-9 PM	1513	0.0	899	0.0	OFF	1513	0	899	0.00	0	68.9	68.9	68.9	35.1	35.1
9-10 PM	1204	0.0	715	0.0	OFF	1204	0	715	0.00	0	69.2	69.2	69.2	36.1	36.1
10-11 PM	832	0.0	494	0.0	OFF	832	0	494	0.00	0	69.7	69.7	69.7	37.2	37.2
11PM-MID	507	0.0	301	0.0	OFF	507	0	301	0.00	0	70.1	70.1	70.1	38.2	38.2

"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	0.0097
MAIN ROUTE WITH WORKS	0.0082
DIVERSION	0.0470

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$71,560
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
MON-THUR EASTBOUND DIRECTION

