

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

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	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	206	0.0	122	0.0	OFF	206	0	122	0.00	0	70.2	70.2	70.2	39.1	39.1
2-3 AM	168	0.0	99	0.0	OFF	168	0	99	0.00	0	70.2	70.2	70.2	39.2	39.2
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	306	0.0	181	0.0	OFF	306	0	181	0.00	0	70.2	70.2	70.2	38.8	38.8
5-6 AM	1100	0.0	653	0.0	OFF	1100	0	653	0.00	0	69.4	69.4	69.4	36.4	36.4
6-7 AM	3069	0.0	1823	0.0	OFF	3069	0	1823+	0.00	0	66.9	66.9	66.9	30.4	30.4
7-8 AM	3681	0.0	2186	0.0	OFF	3681	0	2186+	0.00	0	65.7	65.7	65.7	28.5	28.5
8-9 AM	2789	0.0	1656	0.0	OFF	2789	0	1656+	0.00	0	67.3	67.3	67.3	31.2	31.2
9-10 AM	2372	0.0	1408	0.0	OFF	2372	0	1408+	0.00	0	67.8	67.8	67.8	32.5	32.5
10-11 AM	2242	0.0	1332	0.0	1499	1974	269	1601+	12.04	319	67.9	8.2	30.8	32.9	31.9
11A-NOON	2462	0.0	1463	0.0	1500	1545	917	2380+	20.38	505	67.7	6.0	30.8	32.2	28.3
NOON-1PM	2597	0.0	1542	0.0	1500	1518	1079	2621+	21.42	533	67.5	5.9	30.8	31.8	27.1
1-2 PM	2539	0.0	1507	0.0	1500	1488	1051	2558+	21.13	525	67.6	6.0	30.8	32.0	27.4
2-3 PM	2620	0.0	1556	0.0	1499	1522	1098	2654+	21.57	537	67.5	5.9	30.8	31.7	27.0
3-4 PM	2774	0.0	1647	0.0	OFF	2774	0	1647+	0.48	46	67.3	48.7	48.7	31.3	31.3
4-5 PM	2860	0.0	1698	0.0	OFF	2860	0	1698+	0.00	0	67.2	67.2	67.2	31.0	31.0
5-6 PM	2706	0.0	1606	0.0	OFF	2706	0	1606+	0.00	0	67.4	67.4	67.4	31.5	31.5
6-7 PM	2337	0.0	1388	0.0	OFF	2337	0	1388+	0.00	0	67.8	67.8	67.8	32.6	32.6
7-8 PM	1819	0.0	1080	0.0	OFF	1819	0	1080	0.00	0	68.5	68.5	68.5	34.2	34.2
8-9 PM	1536	0.0	912	0.0	OFF	1536	0	912	0.00	0	68.8	68.8	68.8	35.0	35.0
9-10 PM	1301	0.0	772	0.0	OFF	1301	0	772	0.00	0	69.1	69.1	69.1	35.8	35.8
10-11 PM	1050	0.0	624	0.0	OFF	1050	0	624	0.00	0	69.4	69.4	69.4	36.5	36.5
11PM-MID	759	0.0	450	0.0	OFF	759	0	450	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 (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	0.0097
MAIN ROUTE WITH WORKS	0.0082
DIVERSION	0.0469

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$70,722
CONGESTED HOURS PER DAY*	4

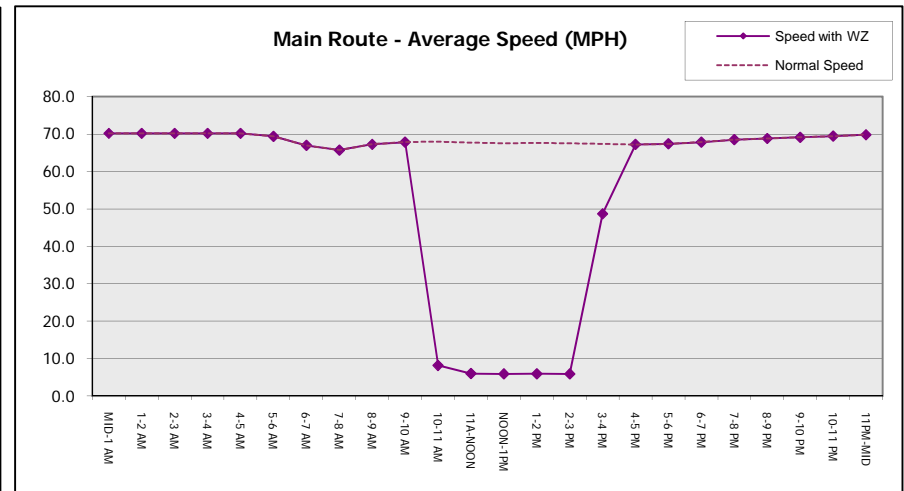
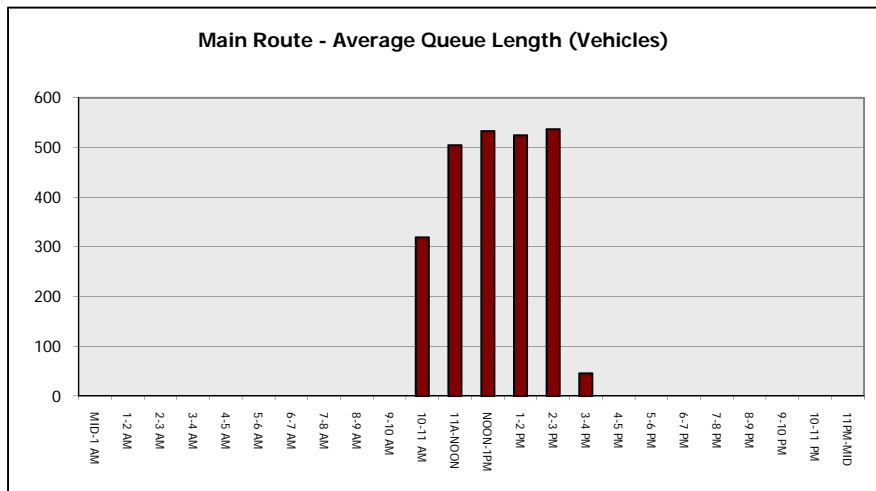
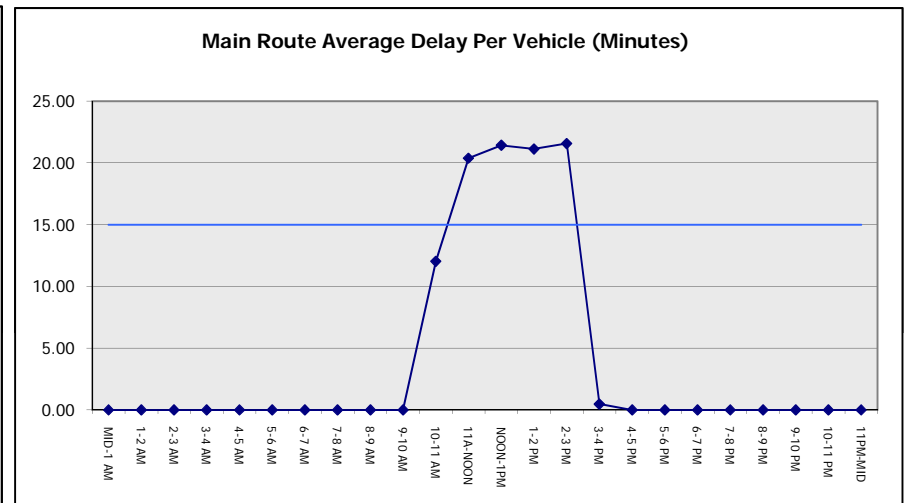
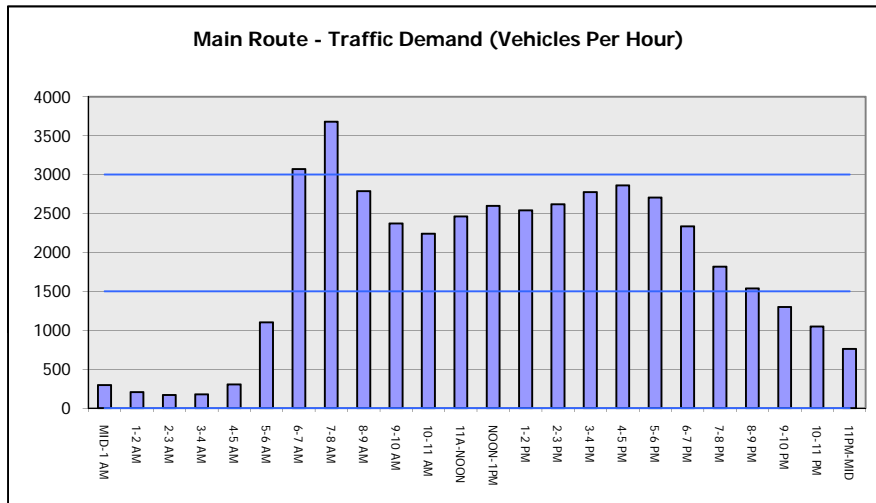
*Delays Exceeding 15 Minutes

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

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	MAY 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		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	304	0.0	181	0.0	OFF	304	0	181	0.00	0	70.2	70.2	70.2	38.8	38.8	
1-2 AM	215	0.0	127	0.0	OFF	215	0	127	0.00	0	70.2	70.2	70.2	39.1	39.1	
2-3 AM	210	0.0	125	0.0	OFF	210	0	125	0.00	0	70.2	70.2	70.2	39.1	39.1	
3-4 AM	178	0.0	106	0.0	OFF	178	0	106	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	825	0.0	490	0.0	OFF	825	0	490	0.00	0	69.7	69.7	69.7	37.2	37.2	
6-7 AM	1950	0.0	1158	0.0	OFF	1950	0	1158	0.00	0	68.3	68.3	68.3	33.8	33.8	
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	2347	0.0	1394	0.0	OFF	2347	0	1394+	0.00	0	67.8	67.8	67.8	32.6	32.6	
9-10 AM	2088	0.0	1239	0.0	OFF	2088	0	1239+	0.00	0	68.1	68.1	68.1	33.3	33.3	
10-11 AM	2236	0.0	1328	0.0	OFF	1499	1981	256	1583+	11.58	313	67.9	8.4	30.8	32.9	32.0
11A-NOON	2592	0.0	1539	0.0	OFF	1500	1573	1019	2558+	21.15	526	67.5	6.0	30.8	31.9	27.4
NOON-1PM	2925	0.0	1737	0.0	OFF	1500	1574	1351	3088+	24.04	602	67.1	5.6	30.8	30.8	24.6
1-2 PM	2934	0.0	1742	0.0	OFF	1500	1502	1432	3175+	24.64	617	67.1	5.5	30.8	30.8	24.1
2-3 PM	3241	0.0	1924	0.0	OFF	1500	1619	1621	3546+	27.25	687	66.7	5.3	30.8	29.9	22.2
3-4 PM	3810	0.0	2262	0.0	OFF	3810	0	0	2262+	1.39	128	64.8	31.2	31.2	28.1	28.1
4-5 PM	3947	0.0	2344	0.0	OFF	3947	0	0	2344+	0.00	0	63.9	63.9	63.9	27.7	27.7
5-6 PM	3335	0.0	1981	0.0	OFF	3335	0	0	1981+	0.00	0	66.6	66.6	66.6	29.6	29.6
6-7 PM	2375	0.0	1411	0.0	OFF	2375	0	0	1411+	0.00	0	67.8	67.8	67.8	32.5	32.5
7-8 PM	1782	0.0	1058	0.0	OFF	1782	0	1058	0.00	0	68.5	68.5	68.5	34.3	34.3	
8-9 PM	1485	0.0	882	0.0	OFF	1485	0	882	0.00	0	68.9	68.9	68.9	35.2	35.2	
9-10 PM	1246	0.0	740	0.0	OFF	1246	0	740	0.00	0	69.2	69.2	69.2	36.0	36.0	
10-11 PM	1097	0.0	651	0.0	OFF	1097	0	651	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	0.0100
MAIN ROUTE WITH WORKS	0.0082
DIVERSION	0.0500

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$91,753
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
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

