

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

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	3000	298	0	177	0.36	0	70.2	54.0	49.7	38.8	38.8
1-2 AM	206	0.0	122	0.0	3000	206	0	122	0.36	0	70.2	54.0	49.7	39.1	39.1
2-3 AM	168	0.0	99	0.0	3000	168	0	99	0.36	0	70.2	54.0	49.7	39.2	39.2
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	306	0.0	181	0.0	3000	306	0	181	0.36	0	70.2	54.0	49.7	38.8	38.8
5-6 AM	1100	0.0	653	0.0	3000	1100	0	653	0.35	0	69.4	53.8	49.7	36.4	36.4
6-7 AM	3069	0.0	1823	0.0	2999	3069	0	1823+	1.19	48	66.9	34.4	39.4	30.4	30.4
7-8 AM	3681	0.0	2186	0.0	3000	3681	0	2186+	10.06	545	65.7	11.5	37.3	28.5	29.5
8-9 AM	2789	0.0	1656	0.0	2999	2789	0	1656+	15.44	812	67.3	9.6	37.3	31.2	32.6
9-10 AM	2372	0.0	1408	0.0	2999	2372	0	1408+	6.43	368	67.8	14.5	40.7	32.5	33.0
10-11 AM	2242	0.0	1332	0.0	3000	2242	0	1332+	0.34	0	67.9	53.1	49.7	32.9	32.9
11A-NOON	2462	0.0	1463	0.0	3000	2462	0	1463+	0.38	0	67.7	51.9	47.8	32.2	32.2
NOON-1PM	2597	0.0	1542	0.0	3000	2597	0	1542+	0.47	0	67.5	49.1	44.6	31.8	31.8
1-2 PM	2539	0.0	1507	0.0	3000	2539	0	1507+	0.43	0	67.6	50.3	45.9	32.0	32.0
2-3 PM	2620	0.0	1556	0.0	3000	2620	0	1556+	0.48	0	67.5	48.7	44.1	31.7	31.7
3-4 PM	2774	0.0	1647	0.0	3000	2774	0	1647+	0.58	0	67.3	45.9	41.0	31.3	31.3
4-5 PM	2860	0.0	1698	0.0	3000	2860	0	1698+	0.64	0	67.2	44.5	39.5	31.0	31.0
5-6 PM	2706	0.0	1606	0.0	3000	2706	0	1606+	0.54	0	67.4	47.1	42.4	31.5	31.5
6-7 PM	2337	0.0	1388	0.0	3000	2337	0	1388+	0.33	0	67.8	53.6	49.7	32.6	32.6
7-8 PM	1819	0.0	1080	0.0	3000	1819	0	1080	0.34	0	68.5	53.7	49.7	34.2	34.2
8-9 PM	1536	0.0	912	0.0	3000	1536	0	912	0.34	0	68.8	53.7	49.7	35.0	35.0
9-10 PM	1301	0.0	772	0.0	3000	1301	0	772	0.35	0	69.1	53.8	49.7	35.8	35.8
10-11 PM	1050	0.0	624	0.0	3000	1050	0	624	0.35	0	69.4	53.8	49.7	36.5	36.5
11PM-MID	759	0.0	450	0.0	3000	759	0	450	0.35	0	69.8	53.9	49.7	37.4	37.4

+ 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	0.0068
DIVERSION	0.0401

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$27,053
CONGESTED HOURS PER DAY*	1

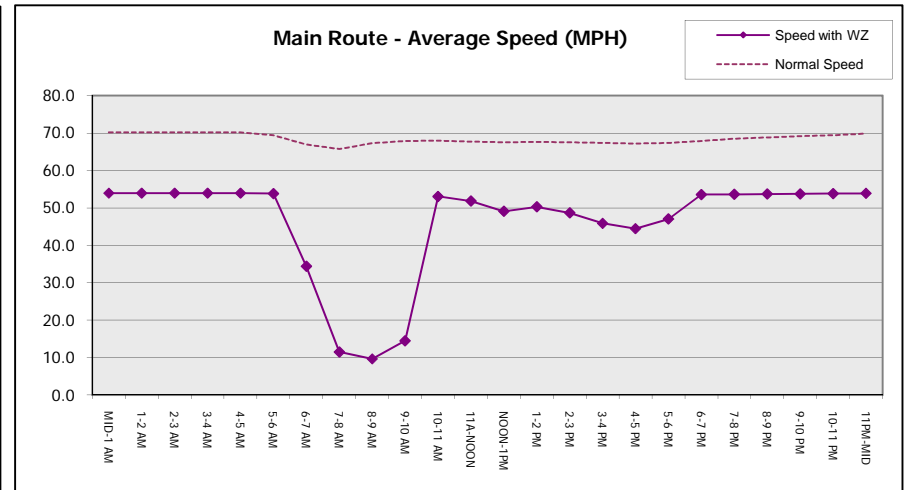
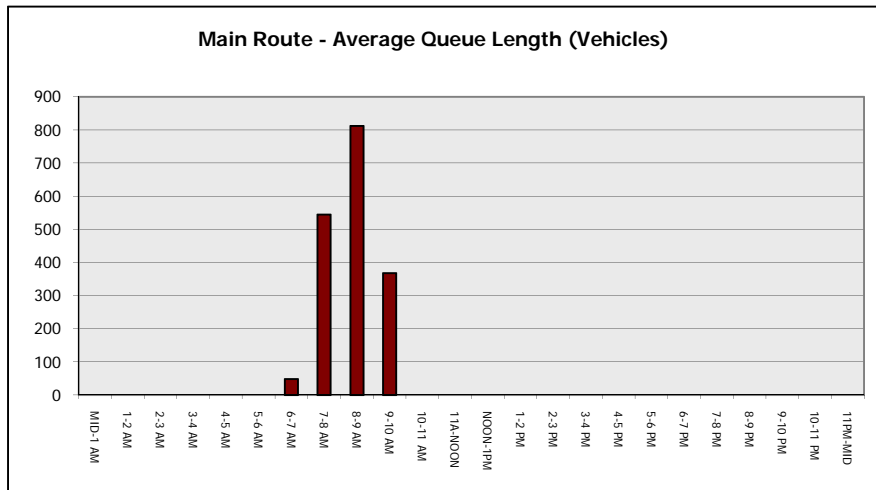
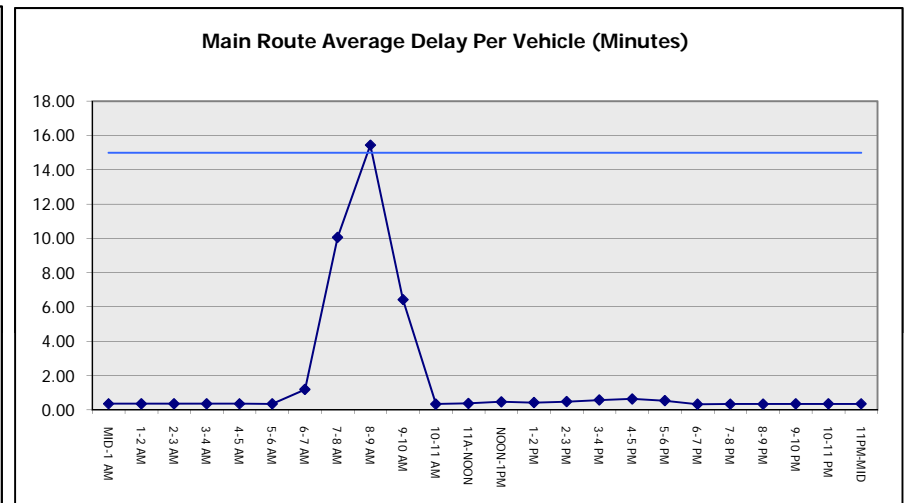
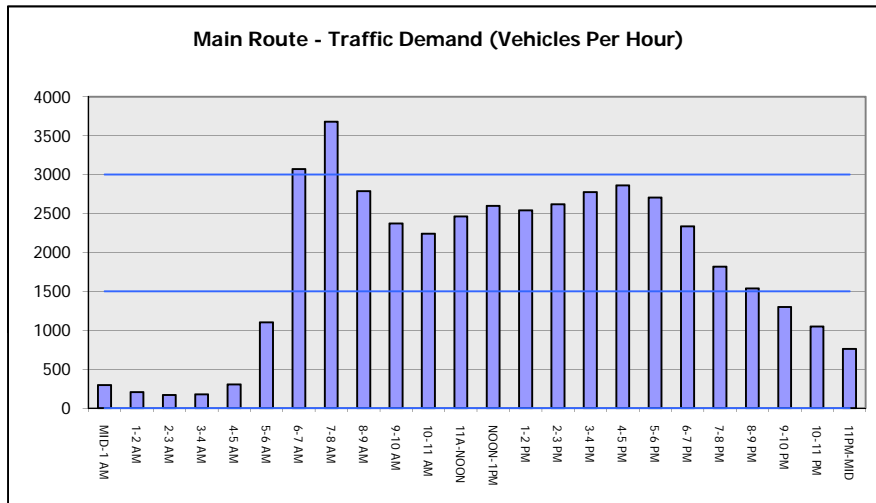
*Delays Exceeding 15 Minutes

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

FRIDAY 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

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	304	0.0	181	0.0	3000	304	0	181	0.36	0	70.2	54.0	49.7	38.8	38.8
1-2 AM	215	0.0	127	0.0	3000	215	0	127	0.36	0	70.2	54.0	49.7	39.1	39.1
2-3 AM	210	0.0	125	0.0	3000	210	0	125	0.36	0	70.2	54.0	49.7	39.1	39.1
3-4 AM	178	0.0	106	0.0	3000	178	0	106	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	825	0.0	490	0.0	3000	825	0	490	0.35	0	69.7	53.9	49.7	37.2	37.2
6-7 AM	1950	0.0	1158	0.0	3000	1950	0	1158	0.34	0	68.3	53.7	49.7	33.8	33.8
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	2347	0.0	1394	0.0	3000	2347	0	1394+	0.33	0	67.8	53.6	49.7	32.6	32.6
9-10 AM	2088	0.0	1239	0.0	3000	2088	0	1239+	0.33	0	68.1	53.6	49.7	33.3	33.3
10-11 AM	2236	0.0	1328	0.0	3000	2236	0	1328+	0.33	0	67.9	53.6	49.7	32.9	32.9
11A-NOON	2592	0.0	1539	0.0	3000	2592	0	1539+	0.46	0	67.5	49.2	44.7	31.9	31.9
NOON-1PM	2925	0.0	1737	0.0	3000	2925	0	1737+	0.68	0	67.1	43.5	38.4	30.8	30.8
1-2 PM	2934	0.0	1742	0.0	2999	2934	0	1742+	0.69	0	67.1	43.3	38.3	30.8	30.8
2-3 PM	3241	0.0	1924	0.0	2999	3241	0	1924+	2.10	92	66.7	25.7	37.3	29.9	29.9
3-4 PM	3810	0.0	2262	0.0	3000	3810	0	2262+	11.36	623	64.8	11.0	37.3	28.1	29.2
4-5 PM	3947	0.0	2344	0.0	2999	3291	656	3000+	23.78	1281	63.9	8.4	37.3	27.7	26.6
5-6 PM	3335	0.0	1981	0.0	2999	2692	643	2624+	22.08	1179	66.6	8.6	37.3	29.6	28.3
6-7 PM	2375	0.0	1411	0.0	2999	2353	22	1433+	14.00	751	67.8	10.1	38.3	32.5	33.6
7-8 PM	1782	0.0	1058	0.0	3000	1782	0	1058	0.82	67	68.5	41.9	49.7	34.3	34.3
8-9 PM	1485	0.0	882	0.0	3000	1485	0	882	0.34	0	68.9	53.7	49.7	35.2	35.2
9-10 PM	1246	0.0	740	0.0	3000	1246	0	740	0.35	0	69.2	53.8	49.7	36.0	36.0
10-11 PM	1097	0.0	651	0.0	3000	1097	0	651	0.35	0	69.4	53.8	49.7	36.4	36.4
11PM-MID	752	0.0	447	0.0	3000	752	0	447	0.35	0	69.8	53.9	49.7	37.4	37.4

+ 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	0.0068
DIVERSION	0.0433

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$63,310
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
FRIDAY EASTBOUND DIRECTION

