

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY) CONTINUOUS (24 HOUR) 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	1500	298	0	177	0.51	0	70.2	49.2	44.3	38.8	38.8
1-2 AM	206	0.0	122	0.0	1500	206	0	122	0.50	0	70.2	49.6	44.6	39.1	39.1
2-3 AM	168	0.0	99	0.0	1500	168	0	99	0.49	0	70.2	49.7	44.8	39.2	39.2
3-4 AM	177	0.0	105	0.0	1500	177	0	105	0.49	0	70.2	49.6	44.8	39.2	39.2
4-5 AM	306	0.0	181	0.0	1500	306	0	181	0.51	0	70.2	49.2	44.3	38.8	38.8
5-6 AM	1100	0.0	653	0.0	1499	1100	0	653	0.76	0	69.4	42.5	37.3	36.4	36.4
6-7 AM	3069	0.0	1823	0.0	1499	2259	810	2633+	18.99	507	66.9	6.5	30.8	30.4	26.9
7-8 AM	3681	0.0	2186	0.0	1500	1601	2080	4266+	33.33	847	65.7	4.9	30.8	28.5	18.8
8-9 AM	2789	0.0	1656	0.0	1500	1178	1610	3267+	25.39	641	67.3	5.5	30.8	31.2	23.7
9-10 AM	2372	0.0	1408	0.0	1500	1445	927	2336+	20.20	501	67.8	6.1	30.8	32.5	28.5
10-11 AM	2242	0.0	1332	0.0	1499	1493	750	2082+	19.21	474	67.9	6.2	30.8	32.9	29.7
11A-NOON	2462	0.0	1463	0.0	1499	1543	919	2382+	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	1500	1537	1237	2884+	22.81	569	67.3	5.7	30.8	31.3	25.7
4-5 PM	2860	0.0	1698	0.0	1500	1512	1348	3046+	23.80	595	67.2	5.7	30.8	31.0	24.8
5-6 PM	2706	0.0	1606	0.0	1500	1447	1259	2865+	22.75	568	67.4	5.8	30.8	31.5	25.8
6-7 PM	2337	0.0	1388	0.0	1500	1428	909	2296+	20.05	497	67.8	6.1	30.8	32.6	28.7
7-8 PM	1819	0.0	1080	0.0	1500	1434	384	1464+	17.17	421	68.5	6.6	30.8	34.2	32.8
8-9 PM	1536	0.0	912	0.0	1499	1460	76	989	15.75	383	68.8	6.9	30.8	35.0	35.1
9-10 PM	1301	0.0	772	0.0	1499	1301	0	772	11.55	280	69.1	8.2	30.9	35.8	36.1
10-11 PM	1050	0.0	624	0.0	1500	1050	0	624	1.26	35	69.4	34.1	39.6	36.5	36.6
11PM-MID	759	0.0	450	0.0	1500	759	0	450	0.56	0	69.8	47.6	42.5	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	0.0044
DIVERSION	0.0641

PIA: Personal Injury Accidents

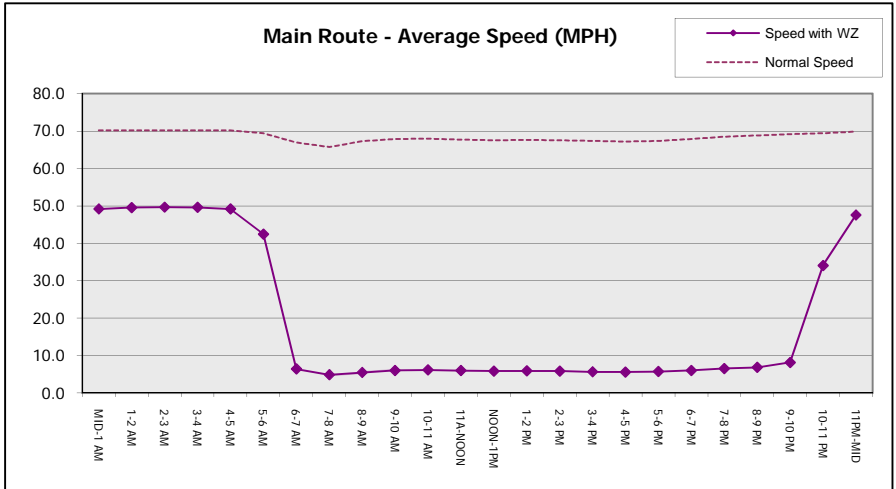
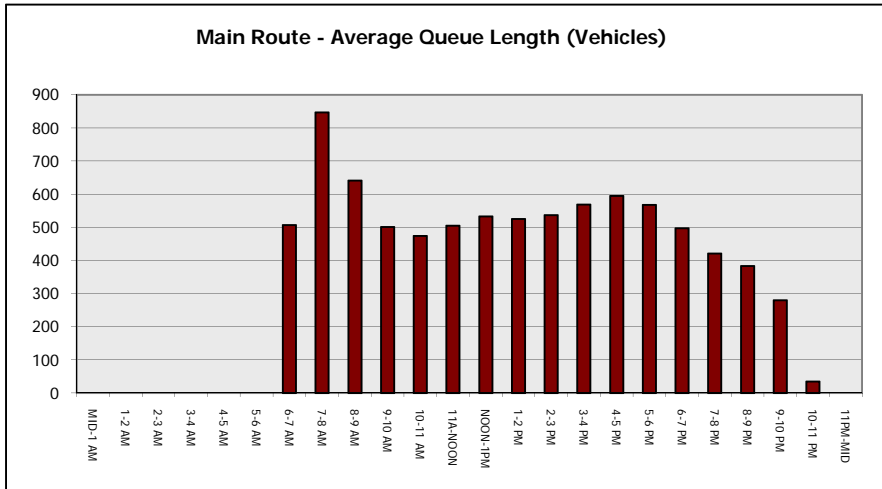
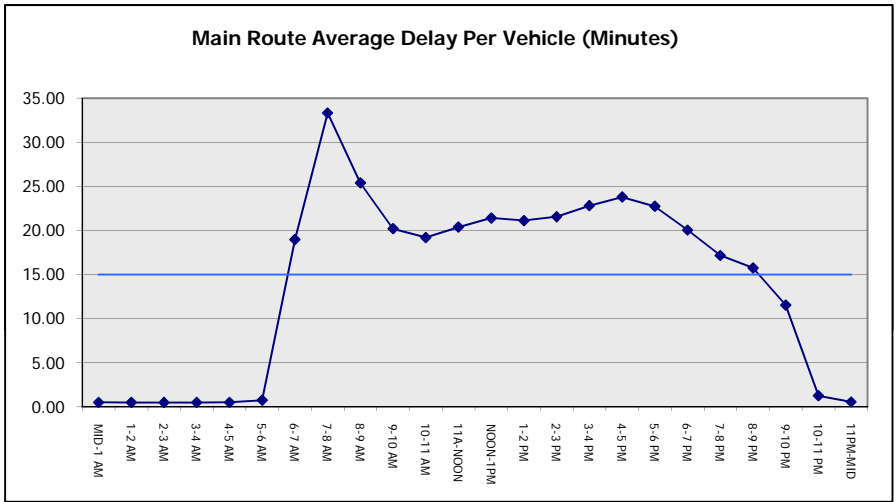
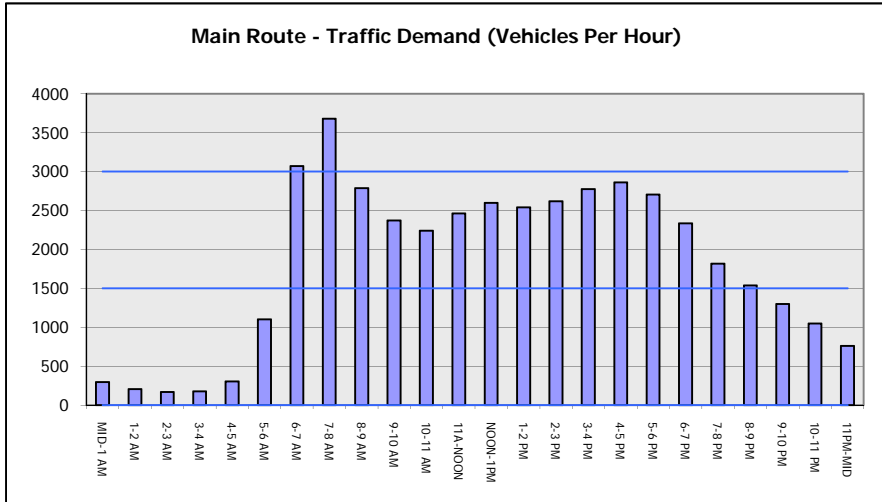
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$257,864
CONGESTED HOURS PER DAY*	15

*Delays Exceeding 15 Minutes

USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
CONTINUOUS (24 HOUR) 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) CONTINUOUS (24 HOUR) 2 LANE 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			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	1500	304	0	181	0.51	0	70.2	49.2	44.3	38.8	38.8
1-2 AM	215	0.0	127	0.0	1500	215	0	127	0.50	0	70.2	49.5	44.6	39.1	39.1
2-3 AM	210	0.0	125	0.0	1500	210	0	125	0.50	0	70.2	49.6	44.6	39.1	39.1
3-4 AM	178	0.0	106	0.0	1500	178	0	106	0.49	0	70.2	49.6	44.8	39.2	39.2
4-5 AM	310	0.0	184	0.0	1500	310	0	184	0.51	0	70.2	49.2	44.2	38.8	38.8
5-6 AM	825	0.0	490	0.0	1500	825	0	490	0.57	0	69.7	47.3	42.3	37.2	37.2
6-7 AM	1950	0.0	1158	0.0	1499	1950	0	1158	5.39	163	68.3	14.0	30.8	33.8	34.0
7-8 AM	2803	0.0	1665	0.0	1499	1646	1157	2822+	22.53	563	67.3	5.8	30.8	31.2	26.0
8-9 AM	2347	0.0	1394	0.0	1500	1380	968	2361+	20.37	506	67.8	6.0	30.8	32.6	28.3
9-10 AM	2088	0.0	1239	0.0	1500	1473	614	1853+	18.40	453	68.1	6.3	30.8	33.3	30.9
10-11 AM	2236	0.0	1328	0.0	1499	1534	702	2030+	19.02	470	67.9	6.3	30.8	32.9	30.0
11A-NOON	2592	0.0	1539	0.0	1499	1571	1021	2560+	21.16	526	67.5	6.0	30.8	31.9	27.4
NOON-1PM	2925	0.0	1737	0.0	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	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	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	1498	1719	2088	4349+	34.25	872	64.8	4.9	30.7	28.1	18.3
4-5 PM	3947	0.0	2344	0.0	1499	1500	2447	4791+	38.38	981	63.9	4.7	30.8	27.7	16.7
5-6 PM	3335	0.0	1981	0.0	1499	1193	2141	4122+	32.10	816	66.6	5.0	30.8	29.6	19.4
6-7 PM	2375	0.0	1411	0.0	1499	1301	1075	2485+	21.06	525	67.8	6.0	30.8	32.5	27.6
7-8 PM	1782	0.0	1058	0.0	1499	1436	346	1404+	16.99	416	68.5	6.6	30.8	34.3	33.1
8-9 PM	1485	0.0	882	0.0	1499	1445	40	922	15.46	376	68.9	7.0	30.8	35.2	35.5
9-10 PM	1246	0.0	740	0.0	1499	1246	0	740	9.32	230	69.2	9.4	31.8	36.0	36.1
10-11 PM	1097	0.0	651	0.0	1500	1097	0	651	0.89	12	69.4	40.1	40.1	36.4	36.4
11PM-MID	752	0.0	447	0.0	1500	752	0	447	0.56	0	69.8	47.6	42.5	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	0.0044
DIVERSION	0.0675

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$294,075
CONGESTED HOURS PER DAY*	14

*Delays Exceeding 15 Minutes

**USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)
 CONTINUOUS (24 HOUR) 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 EASTBOUND DIRECTION

