

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	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	710	0.0	422	0.0	1500	710	0	422	0.56	0	69.9	47.8	42.7	37.6	37.6
1-2 AM	411	0.0	244	0.0	1500	411	0	244	0.52	0	70.2	48.8	43.8	38.5	38.5
2-3 AM	281	0.0	167	0.0	1500	281	0	167	0.51	0	70.2	49.2	44.3	38.9	38.9
3-4 AM	236	0.0	140	0.0	1500	236	0	140	0.50	0	70.2	49.4	44.5	39.0	39.0
4-5 AM	193	0.0	114	0.0	1500	193	0	114	0.50	0	70.2	49.6	44.7	39.2	39.2
5-6 AM	205	0.0	121	0.0	1500	205	0	121	0.50	0	70.2	49.6	44.6	39.1	39.1
6-7 AM	341	0.0	203	0.0	1500	341	0	203	0.51	0	70.2	49.1	44.1	38.7	38.7
7-8 AM	705	0.0	420	0.0	1500	705	0	420	0.56	0	69.9	47.8	42.7	37.6	37.6
8-9 AM	1281	0.0	761	0.0	1499	1281	0	761	0.79	0	69.1	41.9	36.6	35.8	35.8
9-10 AM	2011	0.0	1195	0.0	1499	2011	0	1195	7.45	214	68.2	11.2	30.8	33.6	33.8
10-11 AM	2594	0.0	1540	0.0	1499	1538	1056	2597+	21.32	530	67.5	5.9	30.8	31.8	27.3
11A-NOON	2511	0.0	1491	0.0	1500	1469	1042	2533+	21.03	522	67.6	6.0	30.8	32.1	27.6
NOON-1PM	2554	0.0	1517	0.0	1499	1513	1041	2559+	21.14	525	67.6	6.0	30.8	31.9	27.4
1-2 PM	2668	0.0	1585	0.0	1500	1521	1147	2732+	21.97	547	67.4	5.8	30.8	31.6	26.5
2-3 PM	2612	0.0	1551	0.0	1500	1488	1124	2675+	21.68	539	67.5	5.9	30.8	31.8	26.8
3-4 PM	2743	0.0	1628	0.0	1500	1535	1207	2835+	22.53	562	67.3	5.8	30.8	31.4	26.0
4-5 PM	2841	0.0	1687	0.0	1500	1520	1321	3008+	23.56	589	67.2	5.7	30.8	31.1	25.0
5-6 PM	2815	0.0	1672	0.0	1500	1475	1340	3012+	23.62	590	67.3	5.7	30.8	31.2	25.0
6-7 PM	2363	0.0	1403	0.0	1500	1404	958	2362+	20.34	505	67.8	6.0	30.8	32.5	28.4
7-8 PM	1899	0.0	1128	0.0	1500	1438	461	1589+	17.56	431	68.4	6.5	30.8	34.0	32.2
8-9 PM	1383	0.0	821	0.0	1499	1343	41	862	14.08	342	69.0	7.3	30.8	35.5	35.7
9-10 PM	1141	0.0	677	0.0	1499	1141	0	677	2.59	99	69.3	23.0	36.6	36.3	36.3
10-11 PM	1031	0.0	612	0.0	1500	1031	0	612	0.59	0	69.4	46.6	41.5	36.6	36.6
11PM-MID	961	0.0	570	0.0	1500	961	0	570	0.58	0	69.6	46.9	41.8	36.8	36.8

+ 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	0.0081
MAIN ROUTE WITH WORKS	0.0040
DIVERSION	0.0500

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$205,956
CONGESTED HOURS PER DAY*	10

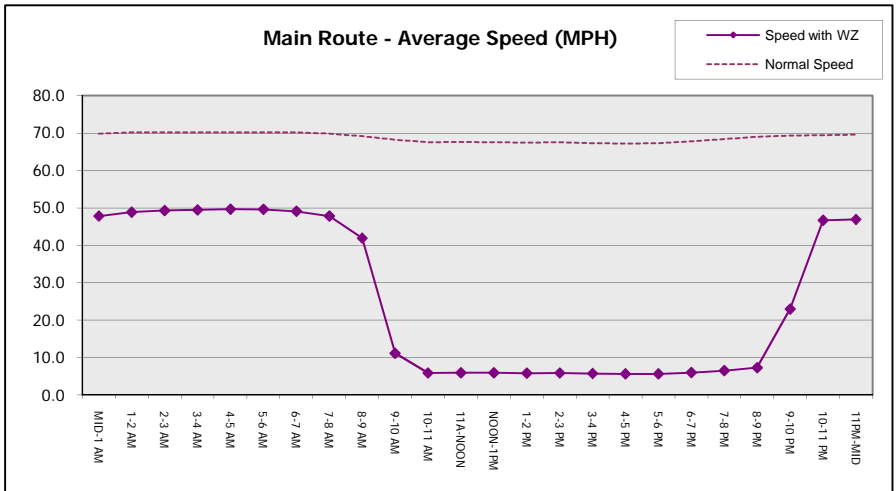
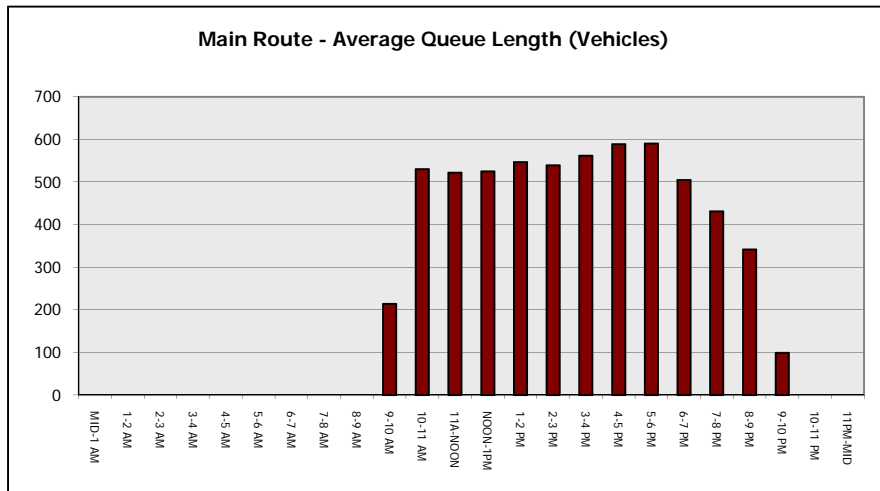
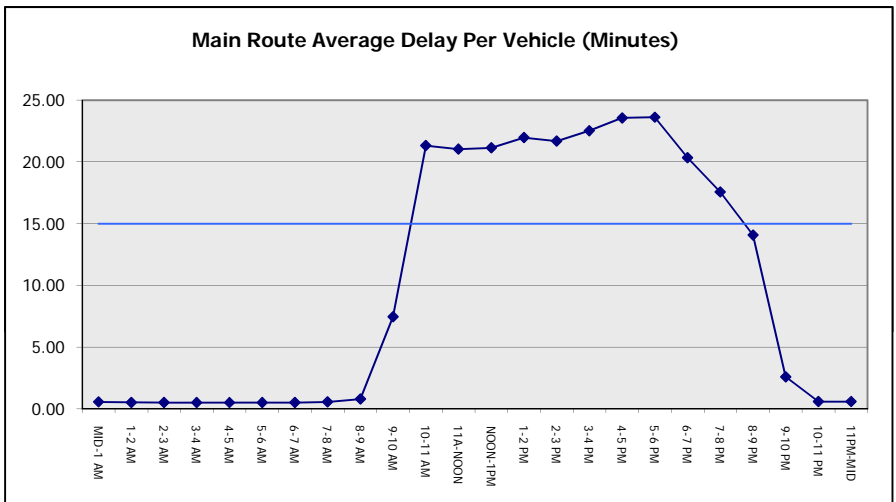
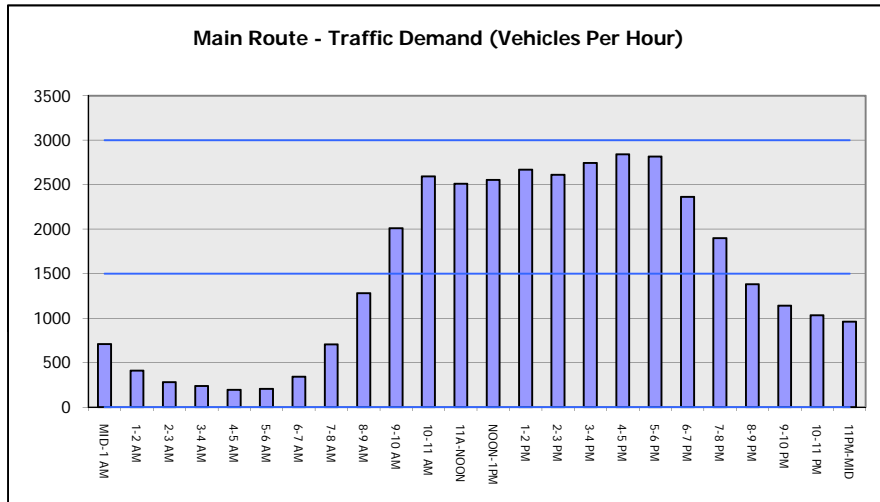
*Delays Exceeding 15 Minutes

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

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY 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	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	713	0.0	423	0.0	1499	713	0	423	2.05	118	69.9	27.4	41.0	37.6	37.7
1-2 AM	463	0.0	275	0.0	1500	463	0	275	0.53	0	70.2	48.6	43.7	38.3	38.3
2-3 AM	281	0.0	167	0.0	1500	281	0	167	0.51	0	70.2	49.2	44.3	38.9	38.9
3-4 AM	258	0.0	154	0.0	1500	258	0	154	0.50	0	70.2	49.4	44.5	38.9	38.9
4-5 AM	198	0.0	117	0.0	1500	198	0	117	0.50	0	70.2	49.6	44.7	39.1	39.1
5-6 AM	161	0.0	95	0.0	1500	161	0	95	0.49	0	70.2	49.7	44.8	39.2	39.2
6-7 AM	311	0.0	185	0.0	1500	311	0	185	0.51	0	70.2	49.2	44.2	38.8	38.8
7-8 AM	605	0.0	359	0.0	1500	605	0	359	0.54	0	70.0	48.1	43.1	37.9	37.9
8-9 AM	1083	0.0	644	0.0	1499	1083	0	644	0.64	0	69.4	45.3	40.1	36.5	36.5
9-10 AM	1529	0.0	908	0.0	1499	1529	0	908	1.50	15	68.8	30.9	31.5	35.1	35.1
10-11 AM	1823	0.0	1082	0.0	1500	1823	0	1082	7.93	200	68.5	10.4	30.8	34.2	34.4
11A-NOON	2214	0.0	1315	0.0	1499	1598	616	1932+	18.68	461	68.0	6.3	30.8	33.0	30.5
NOON-1PM	2399	0.0	1425	0.0	1500	1524	875	2301+	20.05	497	67.8	6.1	30.8	32.4	28.7
1-2 PM	2460	0.0	1461	0.0	1500	1506	954	2415+	20.52	509	67.7	6.0	30.8	32.2	28.1
2-3 PM	2440	0.0	1449	0.0	1500	1501	939	2389+	20.41	506	67.7	6.0	30.8	32.3	28.3
3-4 PM	2687	0.0	1596	0.0	1499	1556	1131	2727+	21.95	547	67.4	5.8	30.8	31.5	26.6
4-5 PM	2859	0.0	1697	0.0	1500	1530	1329	3026+	23.67	592	67.2	5.7	30.8	31.0	24.9
5-6 PM	2685	0.0	1595	0.0	1500	1440	1245	2840+	22.61	564	67.4	5.8	30.8	31.5	25.9
6-7 PM	2309	0.0	1371	0.0	1500	1433	876	2247+	19.86	492	67.9	6.1	30.8	32.7	28.9
7-8 PM	2002	0.0	1189	0.0	1499	1457	545	1733+	18.01	443	68.2	6.4	30.8	33.7	31.5
8-9 PM	1584	0.0	941	0.0	1500	1444	140	1081	16.02	390	68.7	6.8	30.8	34.9	34.7
9-10 PM	1313	0.0	780	0.0	1499	1313	0	780	11.79	285	69.1	8.1	30.8	35.7	36.0
10-11 PM	1375	0.0	816	0.0	1500	1375	0	816	4.94	106	69.1	14.0	31.0	35.5	35.6
11PM-MID	1825	0.0	1084	0.0	1500	1825	0	1084	9.64	243	68.5	9.3	30.8	34.2	34.5

+ 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	0.0079
MAIN ROUTE WITH WORKS	0.0042
DIVERSION	0.0460

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$188,353
CONGESTED HOURS PER DAY*	10

*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**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

