

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

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	381	0.0	226	0.0	1500	381	0	226	0.52	0	70.2	48.9	44.0	38.6	38.6
1-2 AM	212	0.0	126	0.0	1500	212	0	126	0.50	0	70.2	49.5	44.6	39.1	39.1
2-3 AM	146	0.0	87	0.0	1500	146	0	87	0.49	0	70.2	49.7	44.9	39.3	39.3
3-4 AM	135	0.0	81	0.0	1500	135	0	81	0.49	0	70.2	49.8	45.0	39.3	39.3
4-5 AM	174	0.0	103	0.0	1500	174	0	103	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	316	0.0	187	0.0	1500	316	0	187	0.51	0	70.2	49.1	44.2	38.8	38.8
6-7 AM	1017	0.0	604	0.0	1499	1017	0	604	0.71	0	69.5	43.8	38.6	36.6	36.6
7-8 AM	2891	0.0	1717	0.0	1499	2219	672	2389+	16.17	441	67.1	7.0	30.8	30.9	28.1
8-9 AM	4280	0.0	2542	0.0	1125	1084	3196	5738+	46.68	887	61.6	3.7	36.9	26.7	17.2
9-10 AM	3392	0.0	2014	0.0	750	493	2900	4914+	34.22	435	66.5	3.5	42.7	29.4	17.7
10-11 AM	2372	0.0	1408	0.0	1500	1548	825	2233+	19.80	490	67.8	6.1	30.8	32.5	29.0
11A-NOON	2110	0.0	1253	0.0	1499	1483	626	1879+	18.49	455	68.1	6.3	30.8	33.3	30.7
NOON-1PM	2169	0.0	1288	0.0	1499	1515	654	1942+	18.71	461	68.1	6.3	30.8	33.1	30.4
1-2 PM	2262	0.0	1344	0.0	1499	1514	748	2092+	19.25	475	67.9	6.2	30.8	32.9	29.7
2-3 PM	2294	0.0	1362	0.0	1500	1505	789	2151+	19.47	481	67.9	6.1	30.8	32.7	29.4
3-4 PM	2393	0.0	1421	0.0	1500	1523	870	2291+	20.02	496	67.8	6.1	30.8	32.4	28.8
4-5 PM	2723	0.0	1617	0.0	1499	1576	1147	2764+	22.16	552	67.4	5.8	30.8	31.4	26.4
5-6 PM	3043	0.0	1807	0.0	1500	1568	1475	3282+	25.34	636	66.9	5.5	30.8	30.4	23.5
6-7 PM	2781	0.0	1651	0.0	1500	1393	1388	3039+	23.85	597	67.3	5.7	30.8	31.2	24.8
7-8 PM	2082	0.0	1237	0.0	1500	1383	699	1936+	18.73	462	68.1	6.3	30.8	33.4	30.5
8-9 PM	1442	0.0	856	0.0	1499	1367	75	931	15.00	365	68.9	7.1	30.8	35.3	35.4
9-10 PM	1135	0.0	674	0.0	1499	1135	0	674	3.57	133	69.3	18.8	35.7	36.3	36.4
10-11 PM	1003	0.0	595	0.0	1500	1003	0	595	0.59	0	69.5	46.8	41.7	36.7	36.7
11PM-MID	697	0.0	413	0.0	1500	697	0	413	0.55	0	69.9	47.8	42.8	37.6	37.6

+ 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	0.0092
MAIN ROUTE WITH WORKS	0.0040
DIVERSION	0.0628

PIA: Personal Injury Accidents

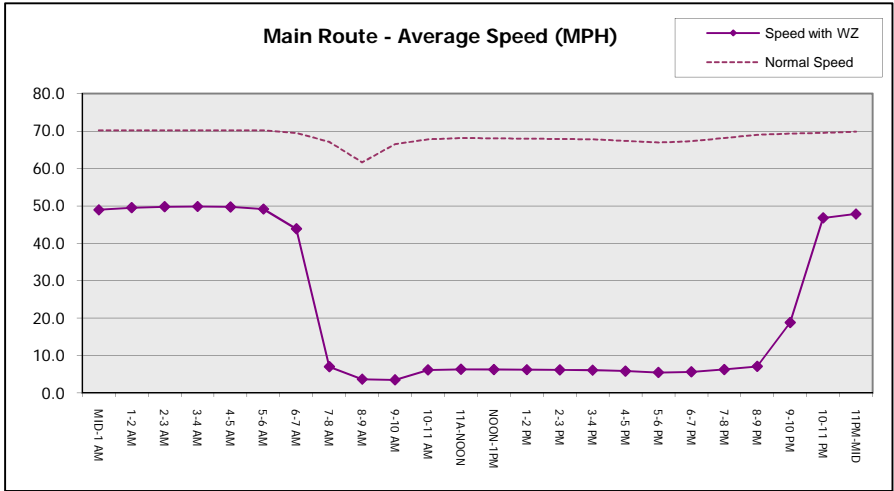
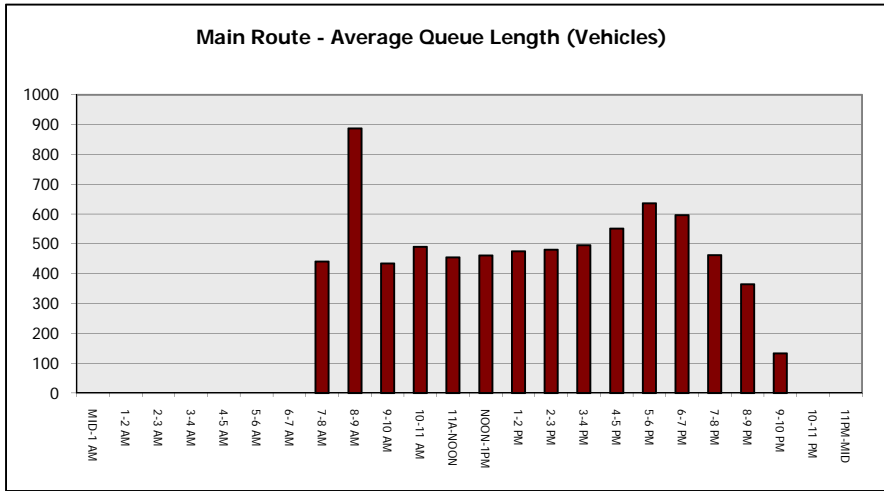
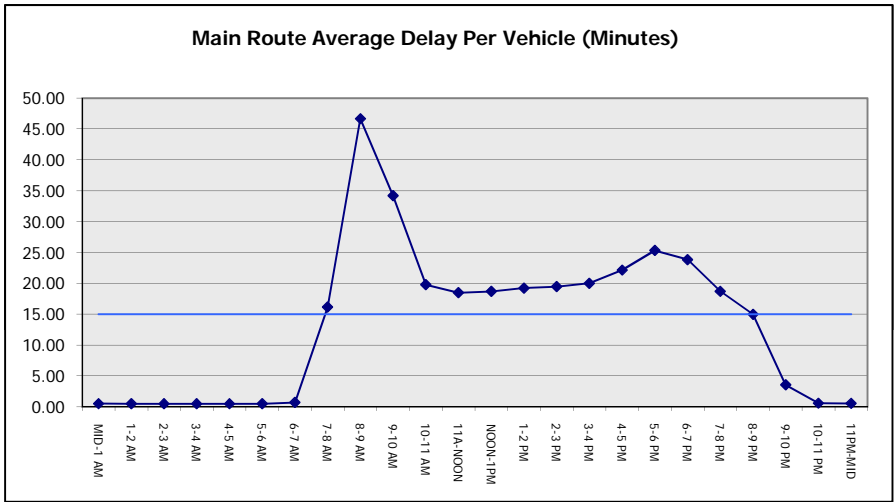
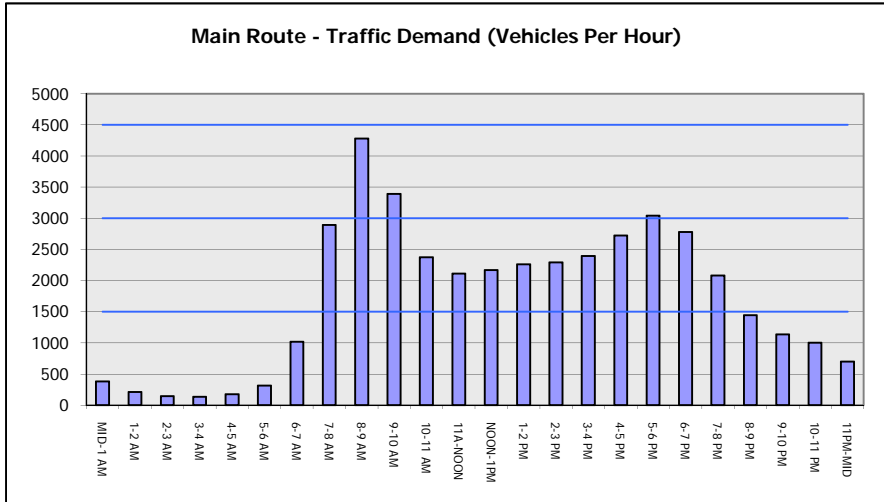
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$260,200
CONGESTED HOURS PER DAY*	13

*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
MON-THUR 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

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	402	0.0	239	0.0	1500	402	0	239	0.52	0	70.2	48.9	43.9	38.5	38.5
1-2 AM	239	0.0	141	0.0	1500	239	0	141	0.50	0	70.2	49.4	44.5	39.0	39.0
2-3 AM	148	0.0	88	0.0	1500	148	0	88	0.49	0	70.2	49.7	44.9	39.3	39.3
3-4 AM	127	0.0	75	0.0	1500	127	0	75	0.49	0	70.2	49.8	45.0	39.4	39.4
4-5 AM	155	0.0	92	0.0	1500	155	0	92	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	295	0.0	175	0.0	1500	295	0	175	0.51	0	70.2	49.2	44.3	38.9	38.9
6-7 AM	845	0.0	502	0.0	1500	845	0	502	0.57	0	69.7	47.3	42.2	37.1	37.1
7-8 AM	1898	0.0	1127	0.0	1499	1898	0	1127	4.24	131	68.4	16.5	30.8	34.0	34.1
8-9 AM	3025	0.0	1797	0.0	1499	1769	1257	3053+	23.97	603	66.9	5.7	30.8	30.5	24.8
9-10 AM	2480	0.0	1472	0.0	1500	1322	1158	2630+	21.69	541	67.6	5.9	30.8	32.2	27.0
10-11 AM	1936	0.0	1150	0.0	1500	1434	502	1652+	17.75	436	68.3	6.5	30.8	33.8	31.9
11A-NOON	1975	0.0	1173	0.0	1499	1517	457	1630+	17.67	434	68.3	6.5	30.8	33.7	32.0
NOON-1PM	2225	0.0	1321	0.0	1499	1538	687	2008+	18.94	467	68.0	6.3	30.8	33.0	30.1
1-2 PM	2313	0.0	1374	0.0	1500	1510	802	2176+	19.57	484	67.9	6.1	30.8	32.7	29.3
2-3 PM	2371	0.0	1407	0.0	1500	1517	854	2262+	19.90	493	67.8	6.1	30.8	32.5	28.9
3-4 PM	2789	0.0	1656	0.0	1499	1615	1174	2830+	22.53	563	67.3	5.8	30.8	31.2	26.0
4-5 PM	3594	0.0	2135	0.0	1500	1785	1809	3944+	30.40	772	66.3	5.1	30.8	28.8	20.3
5-6 PM	4170	0.0	2476	0.0	1499	1500	2670	5146+	38.30	981	62.3	4.7	30.8	27.0	16.7
6-7 PM	3656	0.0	2171	0.0	1499	1369	2287	4458+	35.40	901	65.9	4.8	30.8	28.6	17.9
7-8 PM	2389	0.0	1419	0.0	1499	1181	1207	2626+	21.96	553	67.8	5.9	30.8	32.5	26.8
8-9 PM	1588	0.0	943	0.0	1500	1395	193	1136	16.06	392	68.7	6.8	30.8	34.9	34.4
9-10 PM	1286	0.0	764	0.0	1499	1286	0	764	10.72	260	69.1	8.6	31.1	35.8	36.1
10-11 PM	1080	0.0	641	0.0	1500	1080	0	641	1.14	27	69.4	35.7	39.5	36.5	36.5
11PM-MID	737	0.0	437	0.0	1500	737	0	437	0.56	0	69.8	47.6	42.6	37.5	37.5

+ 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	0.0093
MAIN ROUTE WITH WORKS	0.0042
DIVERSION	0.0615

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$259,580
CONGESTED HOURS PER DAY*	13

*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
MON-THUR EASTBOUND DIRECTION

