

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	AUGUST
	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	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	209	0.0	125	0.0	1500	209	0	125	0.50	0	70.2	49.6	44.6	39.1	39.1
2-3 AM	176	0.0	105	0.0	1500	176	0	105	0.49	0	70.2	49.7	44.8	39.2	39.2
3-4 AM	184	0.0	110	0.0	1500	184	0	110	0.49	0	70.2	49.6	44.8	39.2	39.2
4-5 AM	339	0.0	202	0.0	1500	339	0	202	0.51	0	70.2	49.1	44.2	38.7	38.7
5-6 AM	1197	0.0	710	0.0	1499	1197	0	710	0.95	5	69.2	38.8	36.5	36.1	36.1
6-7 AM	3136	0.0	1863	0.0	1500	2280	856	2718+	19.55	538	66.8	6.5	30.8	30.2	26.5
7-8 AM	4204	0.0	2497	0.0	1500	1570	2634	5131+	37.62	964	62.2	4.7	30.8	26.9	17.0
8-9 AM	3250	0.0	1930	0.0	1500	1258	1992	3922+	30.28	767	66.7	5.1	30.8	29.8	20.4
9-10 AM	2522	0.0	1497	0.0	1500	1366	1156	2653+	21.73	542	67.6	5.9	30.8	32.0	26.8
10-11 AM	2276	0.0	1352	0.0	1499	1477	798	2150+	19.47	481	67.9	6.1	30.8	32.8	29.4
11A-NOON	2308	0.0	1371	0.0	1499	1512	796	2167+	19.53	483	67.9	6.1	30.8	32.7	29.3
NOON-1PM	2408	0.0	1429	0.0	1499	1516	891	2321+	20.13	499	67.8	6.1	30.8	32.4	28.6
1-2 PM	2433	0.0	1445	0.0	1500	1504	929	2374+	20.35	504	67.7	6.0	30.8	32.3	28.3
2-3 PM	2514	0.0	1493	0.0	1500	1520	994	2488+	20.83	517	67.6	6.0	30.8	32.0	27.8
3-4 PM	2764	0.0	1642	0.0	1500	1562	1201	2843+	22.57	563	67.3	5.8	30.8	31.3	26.0
4-5 PM	3025	0.0	1797	0.0	1500	1556	1469	3265+	25.23	633	66.9	5.5	30.8	30.5	23.6
5-6 PM	2811	0.0	1669	0.0	1500	1403	1407	3076+	24.08	603	67.3	5.6	30.8	31.2	24.6
6-7 PM	1990	0.0	1181	0.0	1500	1368	622	1803+	18.27	451	68.2	6.4	30.8	33.7	31.1
7-8 PM	1488	0.0	884	0.0	1499	1422	66	951	15.51	377	68.9	6.9	30.8	35.2	35.3
8-9 PM	1312	0.0	780	0.0	1499	1312	0	780	10.68	256	69.1	8.6	30.8	35.7	36.0
9-10 PM	1124	0.0	668	0.0	1500	1124	0	668	1.36	36	69.4	32.8	38.4	36.3	36.3
10-11 PM	850	0.0	504	0.0	1500	850	0	504	0.57	0	69.7	47.3	42.2	37.1	37.1
11PM-MID	556	0.0	330	0.0	1500	556	0	330	0.54	0	70.0	48.3	43.3	38.1	38.1

+ 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	0.0043
DIVERSION	0.0642

PIA: Personal Injury Accidents

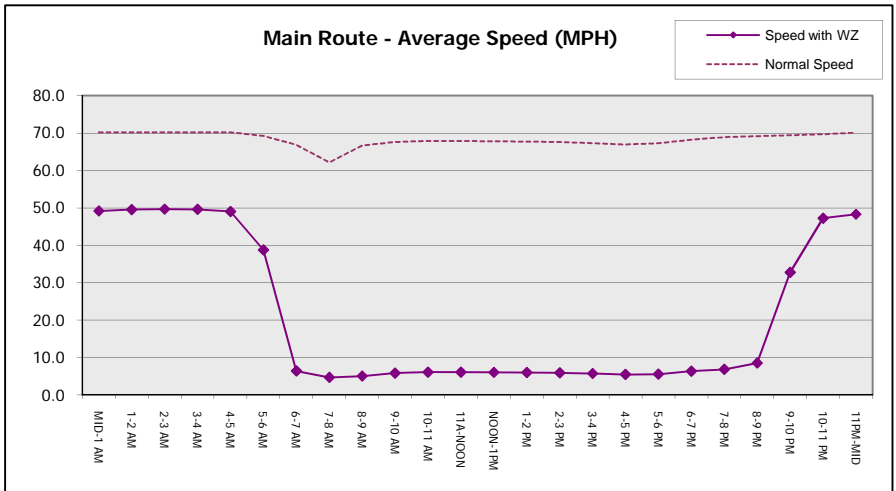
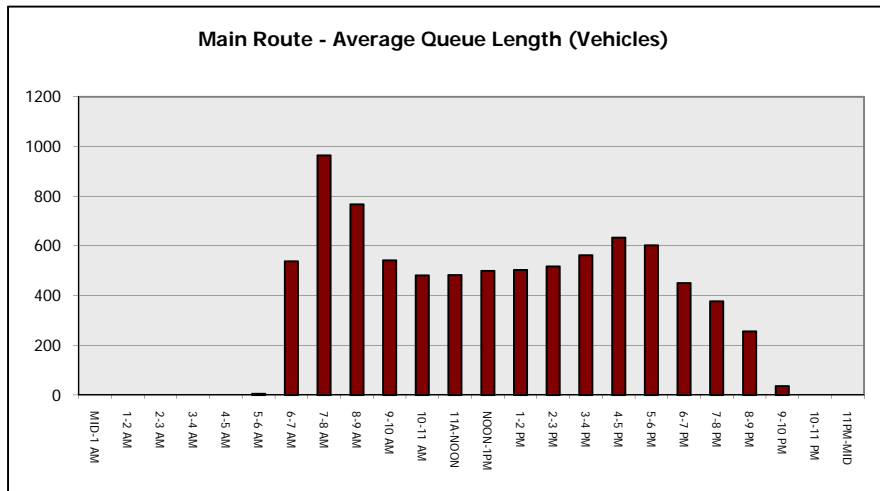
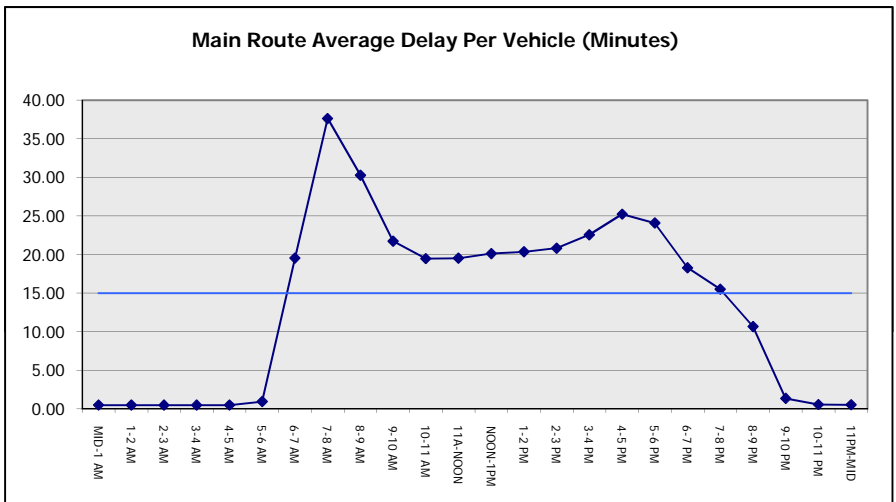
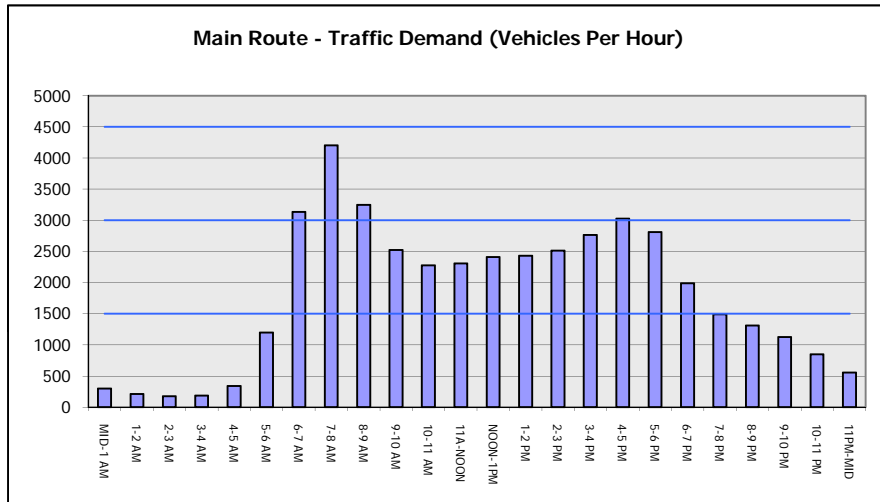
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$259,891
CONGESTED HOURS PER DAY*	14

*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

AUGUST
 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	AUGUST
	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			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	279	0.0	165	0.0	1500	279	0	165	0.51	0	70.2	49.3	44.3	38.9	38.9
1-2 AM	180	0.0	107	0.0	1500	180	0	107	0.49	0	70.2	49.6	44.8	39.2	39.2
2-3 AM	157	0.0	93	0.0	1500	157	0	93	0.49	0	70.2	49.7	44.8	39.2	39.2
3-4 AM	154	0.0	91	0.0	1500	154	0	91	0.49	0	70.2	49.7	44.9	39.2	39.2
4-5 AM	322	0.0	191	0.0	1500	322	0	191	0.51	0	70.2	49.1	44.2	38.8	38.8
5-6 AM	878	0.0	521	0.0	1500	878	0	521	0.57	0	69.6	47.2	42.1	37.1	37.1
6-7 AM	1990	0.0	1182	0.0	1499	1990	0	1182	5.95	181	68.2	13.2	30.8	33.7	33.8
7-8 AM	2915	0.0	1731	0.0	1499	1639	1276	3007+	23.56	590	67.1	5.7	30.8	30.9	25.1
8-9 AM	2453	0.0	1457	0.0	1500	1360	1093	2549+	21.24	529	67.7	6.0	30.8	32.2	27.4
9-10 AM	2048	0.0	1216	0.0	1500	1451	596	1812+	18.27	450	68.2	6.4	30.8	33.5	31.1
10-11 AM	2157	0.0	1281	0.0	1499	1528	629	1910+	18.60	458	68.1	6.3	30.8	33.2	30.6
11A-NOON	2430	0.0	1443	0.0	1499	1545	885	2328+	20.16	500	67.7	6.1	30.8	32.4	28.6
NOON-1PM	2513	0.0	1493	0.0	1500	1510	1003	2496+	20.87	518	67.6	6.0	30.8	32.0	27.8
1-2 PM	2573	0.0	1528	0.0	1500	1520	1053	2580+	21.24	528	67.6	6.0	30.8	31.9	27.3
2-3 PM	2991	0.0	1776	0.0	1500	1632	1358	3134+	24.33	610	67.0	5.6	30.8	30.6	24.4
3-4 PM	3685	0.0	2188	0.0	1500	1753	1932	4120+	31.99	813	65.7	5.0	30.8	28.5	19.4
4-5 PM	4062	0.0	2412	0.0	1499	1500	2562	4974+	38.34	981	63.1	4.7	30.8	27.3	16.7
5-6 PM	3727	0.0	2213	0.0	1499	1384	2343	4556+	36.52	931	65.4	4.8	30.8	28.4	17.5
6-7 PM	2400	0.0	1425	0.0	1499	1146	1255	2680+	22.24	561	67.8	5.8	30.8	32.4	26.6
7-8 PM	1719	0.0	1021	0.0	1500	1433	286	1307+	16.71	409	68.6	6.6	30.8	34.5	33.6
8-9 PM	1513	0.0	899	0.0	1499	1464	49	948	15.60	379	68.9	6.9	30.8	35.1	35.3
9-10 PM	1204	0.0	715	0.0	1499	1204	0	715	9.01	230	69.2	9.7	32.8	36.1	36.3
10-11 PM	832	0.0	494	0.0	1500	832	0	494	0.64	3	69.7	45.5	42.3	37.2	37.2
11PM-MID	507	0.0	301	0.0	1500	507	0	301	0.53	0	70.1	48.4	43.5	38.2	38.2

+ 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	0.0097
MAIN ROUTE WITH WORKS	0.0043
DIVERSION	0.0652

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$280,429
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**

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

