

<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>OCTOBER</b>
	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	513	0.0	305	0.0	1500	513	0	305	0.53	0	70.1	48.4	43.5	38.2	38.2
1-2 AM	265	0.0	157	0.0	1500	265	0	157	0.50	0	70.2	49.3	44.4	38.9	38.9
2-3 AM	199	0.0	118	0.0	1500	199	0	118	0.50	0	70.2	49.6	44.7	39.1	39.1
3-4 AM	165	0.0	98	0.0	1500	165	0	98	0.49	0	70.2	49.7	44.8	39.2	39.2
4-5 AM	190	0.0	113	0.0	1500	190	0	113	0.50	0	70.2	49.6	44.7	39.2	39.2
5-6 AM	318	0.0	189	0.0	1500	318	0	189	0.51	0	70.2	49.1	44.2	38.8	38.8
6-7 AM	942	0.0	559	0.0	1499	942	0	559	0.64	0	69.6	45.3	40.2	36.9	36.9
7-8 AM	2665	0.0	1582	0.0	1499	2147	518	2100+	13.73	383	67.4	7.8	30.8	31.6	29.4
8-9 AM	4037	0.0	2397	0.0	1500	1848	2189	4586+	35.24	903	63.3	4.8	30.8	27.4	17.9
9-10 AM	3287	0.0	1952	0.0	1499	1152	2135	4086+	31.82	809	66.6	5.0	30.8	29.7	19.6
10-11 AM	2456	0.0	1459	0.0	1499	1341	1115	2574+	21.39	533	67.7	5.9	30.8	32.2	27.2
11A-NOON	2321	0.0	1378	0.0	1499	1499	822	2200+	19.66	486	67.9	6.1	30.8	32.7	29.2
NOON-1PM	2475	0.0	1469	0.0	1499	1534	940	2410+	20.50	508	67.7	6.0	30.8	32.2	28.1
1-2 PM	2683	0.0	1594	0.0	1500	1541	1142	2736+	21.99	548	67.4	5.8	30.8	31.5	26.5
2-3 PM	2743	0.0	1628	0.0	1500	1512	1231	2859+	22.68	566	67.3	5.8	30.8	31.4	25.8
3-4 PM	2877	0.0	1709	0.0	1500	1543	1334	3043+	23.77	594	67.1	5.7	30.8	31.0	24.8
4-5 PM	3160	0.0	1877	0.0	1500	1585	1575	3453+	26.57	669	66.8	5.4	30.8	30.1	22.6
5-6 PM	3240	0.0	1924	0.0	1500	1502	1738	3662+	28.15	710	66.7	5.3	30.8	29.9	21.5
6-7 PM	3015	0.0	1790	0.0	1500	1411	1603	3394+	26.23	659	67.0	5.4	30.8	30.6	22.9
7-8 PM	2575	0.0	1530	0.0	1500	1387	1189	2718+	22.02	549	67.5	5.8	30.8	31.9	26.5
8-9 PM	1873	0.0	1112	0.0	1500	1406	467	1579+	17.53	431	68.4	6.5	30.8	34.0	32.2
9-10 PM	1510	0.0	897	0.0	1499	1446	64	961	15.62	380	68.9	6.9	30.8	35.1	35.3
10-11 PM	1314	0.0	781	0.0	1499	1314	0	781	11.38	274	69.1	8.3	30.8	35.7	36.0
11PM-MID	1058	0.0	628	0.0	1500	1058	0	628	1.41	41	69.4	32.2	38.8	36.5	36.5

+ 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	0.0102
MAIN ROUTE WITH WORKS	0.0044
DIVERSION	0.0699

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$306,087
CONGESTED HOURS PER DAY*	14

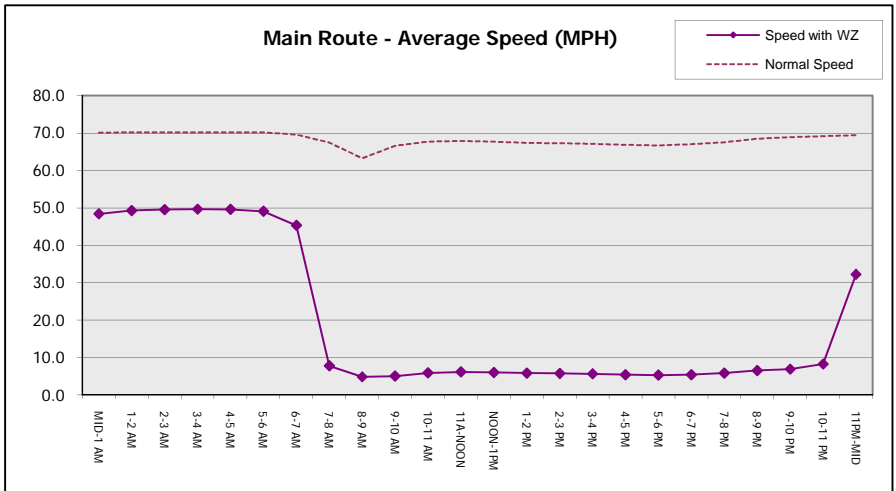
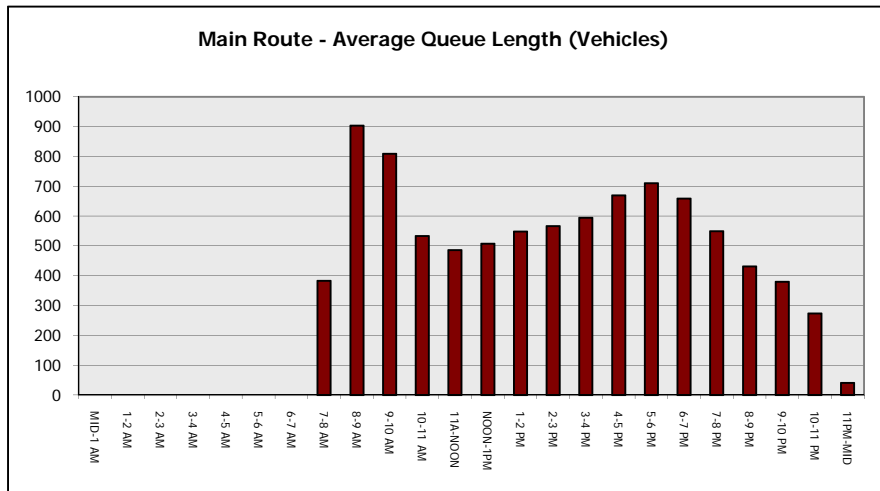
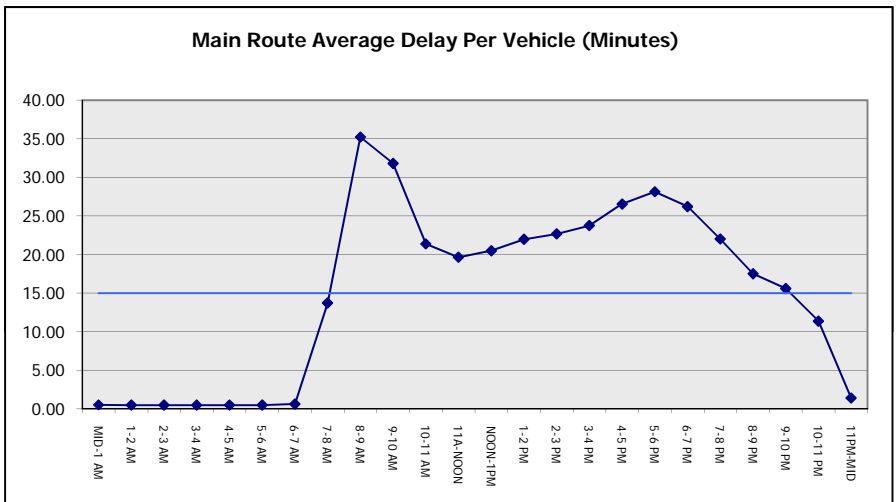
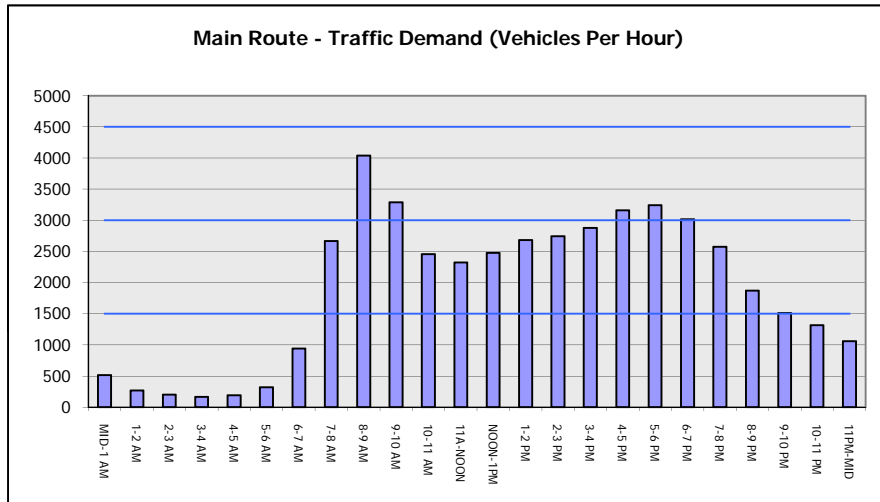
\*Delays Exceeding 15 Minutes

**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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY WESTBOUND DIRECTION**



<b>USH 12/18: USH 51 TO IH 39/90 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: IH 39/90 - STH 30 - USH 51</b>	<b>OCTOBER</b>
	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		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	509	0.0	301	0.0	1500	509	0	301	0.53	0	70.1	48.4	43.5	38.2	38.2
1-2 AM	320	0.0	190	0.0	1500	320	0	190	0.51	0	70.2	49.1	44.2	38.8	38.8
2-3 AM	189	0.0	112	0.0	1500	189	0	112	0.50	0	70.2	49.6	44.7	39.2	39.2
3-4 AM	174	0.0	104	0.0	1500	174	0	104	0.49	0	70.2	49.7	44.8	39.2	39.2
4-5 AM	176	0.0	105	0.0	1500	176	0	105	0.49	0	70.2	49.7	44.8	39.2	39.2
5-6 AM	288	0.0	171	0.0	1500	288	0	171	0.51	0	70.2	49.2	44.3	38.9	38.9
6-7 AM	775	0.0	460	0.0	1500	775	0	460	0.56	0	69.7	47.5	42.5	37.4	37.4
7-8 AM	1723	0.0	1023	0.0	1499	1723	0	1023	2.21	59	68.6	24.7	31.1	34.5	34.5
8-9 AM	2775	0.0	1648	0.0	1499	1860	915	2563+	20.52	518	67.3	6.1	30.8	31.3	27.3
9-10 AM	2364	0.0	1403	0.0	1500	1380	983	2387+	20.48	508	67.8	6.0	30.8	32.5	28.2
10-11 AM	2008	0.0	1192	0.0	1500	1460	548	1740+	18.03	443	68.2	6.4	30.8	33.6	31.4
11A-NOON	2185	0.0	1298	0.0	1499	1539	646	1944+	18.72	461	68.0	6.3	30.8	33.1	30.4
NOON-1PM	2569	0.0	1526	0.0	1499	1571	998	2524+	21.00	522	67.6	6.0	30.8	31.9	27.6
1-2 PM	2810	0.0	1668	0.0	1500	1552	1257	2925+	23.05	576	67.3	5.7	30.8	31.2	25.5
2-3 PM	3003	0.0	1783	0.0	1500	1561	1442	3225+	24.95	626	67.0	5.5	30.8	30.6	23.8
3-4 PM	3416	0.0	2029	0.0	1499	1652	1765	3794+	29.17	737	66.5	5.2	30.8	29.3	20.9
4-5 PM	3909	0.0	2321	0.0	1500	1697	2213	4534+	36.23	926	64.1	4.8	30.8	27.8	17.5
5-6 PM	3900	0.0	2316	0.0	1500	1447	2453	4769+	37.89	968	64.2	4.7	30.8	27.8	16.9
6-7 PM	3503	0.0	2080	0.0	1500	1281	2222	4302+	33.79	859	66.4	4.9	30.8	29.1	18.6
7-8 PM	2623	0.0	1558	0.0	1500	1257	1366	2924+	23.35	587	67.5	5.7	30.8	31.7	25.4
8-9 PM	1723	0.0	1023	0.0	1500	1396	327	1351+	16.85	413	68.6	6.6	30.8	34.5	33.3
9-10 PM	1457	0.0	864	0.0	1499	1441	15	880	15.14	368	68.9	7.0	30.8	35.3	35.6
10-11 PM	1314	0.0	781	0.0	1499	1314	0	781	10.46	251	69.1	8.7	30.9	35.7	36.0
11PM-MID	1047	0.0	622	0.0	1500	1047	0	622	1.19	30	69.4	35.0	39.4	36.6	36.6

+ 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	0.0043
DIVERSION	0.0675

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$308,738
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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY EASTBOUND DIRECTION**

