

**IH 39/90/94: USH 51 TO IH 94/STH 30 (DANE COUNTY)
CONTINUOUS (24 HOUR) 2 LANE CLOSURE
DIVERSION ROUTE: STH 30 - USH 51**

OCTOBER

Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	412	0.0	134	0.0	1500	412	0	134	0.52	0	70.2	63.3	43.8	39.1	39.1
1-2 AM	290	0.0	94	0.0	1500	290	0	94	0.51	0	70.2	63.5	44.3	39.3	39.3
2-3 AM	262	0.0	85	0.0	1500	262	0	85	0.50	0	70.2	63.6	44.5	39.3	39.3
3-4 AM	204	0.0	66	0.0	1500	204	0	66	0.50	0	70.2	63.7	44.6	39.4	39.4
4-5 AM	171	0.0	55	0.0	1500	171	0	55	0.49	0	70.2	63.7	44.8	39.5	39.5
5-6 AM	277	0.0	90	0.0	1500	277	0	90	0.51	0	70.2	63.6	44.4	39.3	39.3
6-7 AM	408	0.0	133	0.0	1500	408	0	133	0.52	0	70.2	63.4	43.8	39.1	39.1
7-8 AM	701	0.0	228	0.0	1500	701	0	228	0.55	0	69.9	62.7	42.7	38.6	38.6
8-9 AM	1061	0.0	345	0.0	1499	1061	0	345	0.62	0	69.4	61.6	40.7	38.1	38.1
9-10 AM	1536	0.0	500	0.0	1499	1536	0	500	1.72	20	68.8	51.1	31.8	37.3	37.3
10-11 AM	2109	0.0	686	0.0	1500	1611	498	1184	7.68	175	68.1	26.9	30.8	36.5	34.0
11A-NOON	2572	0.0	837	0.0	1499	1528	1044	1881+	9.21	215	67.6	24.0	30.8	35.7	30.7
NOON-1PM	2691	0.0	877	0.0	1500	1505	1186	2063+	9.62	225	67.4	23.3	30.8	35.5	29.8
1-2 PM	2699	0.0	879	0.0	1500	1499	1200	2078+	9.65	226	67.4	23.2	30.8	35.5	29.7
2-3 PM	2670	0.0	870	0.0	1500	1498	1172	2042+	9.57	224	67.4	23.3	30.8	35.6	29.9
3-4 PM	2713	0.0	884	0.0	1499	1504	1209	2093+	9.69	227	67.4	23.2	30.8	35.5	29.7
4-5 PM	2752	0.0	897	0.0	1500	1499	1253	2150+	9.82	231	67.3	22.9	30.8	35.4	29.4
5-6 PM	2369	0.0	771	0.0	1500	1467	902	1673+	8.78	203	67.8	24.7	30.8	36.0	31.7
6-7 PM	1971	0.0	642	0.0	1500	1474	497	1140	7.78	176	68.3	26.7	30.8	36.6	34.3
7-8 PM	1537	0.0	500	0.0	1500	1446	91	591	6.61	145	68.8	29.5	30.8	37.3	36.9
8-9 PM	1125	0.0	366	0.0	1500	1125	0	366	1.36	23	69.4	54.3	38.7	38.0	38.0
9-10 PM	855	0.0	278	0.0	1500	855	0	278	0.57	0	69.7	62.4	42.2	38.4	38.4
10-11 PM	605	0.0	197	0.0	1500	605	0	197	0.54	0	70.0	63.0	43.1	38.8	38.8
11PM-MID	430	0.0	140	0.0	1500	430	0	140	0.53	0	70.2	63.3	43.8	39.1	39.1

+ 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	0.0294
MAIN ROUTE WITH WORKS	0.0196
DIVERSION	0.2001

PIA: Personal Injury Accidents

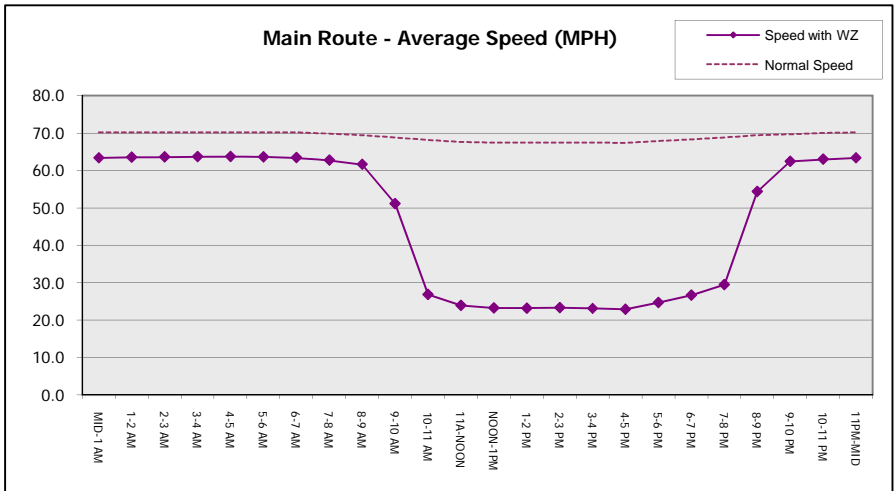
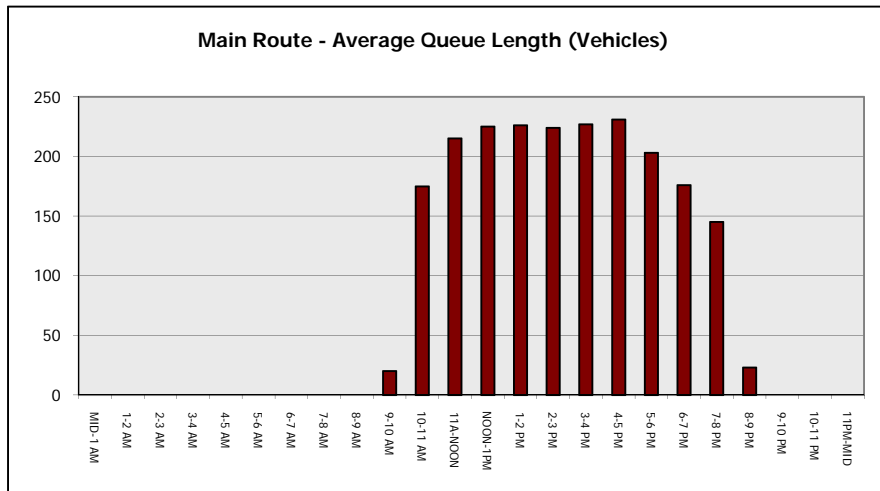
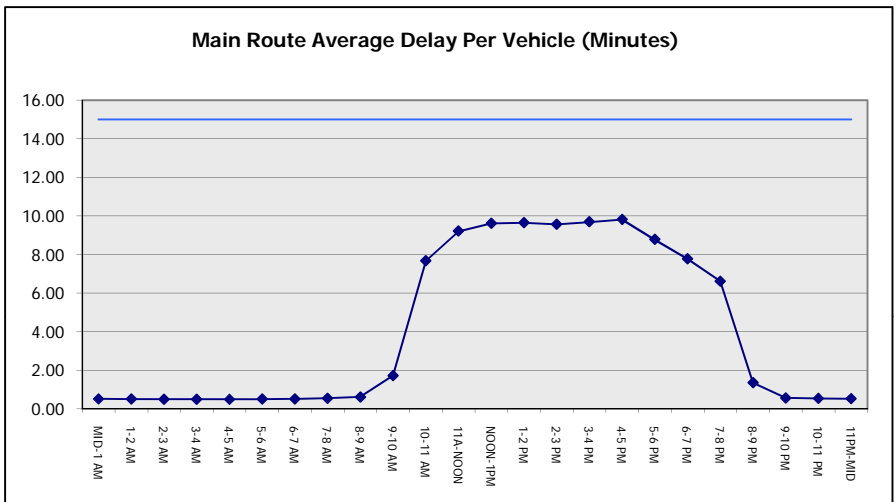
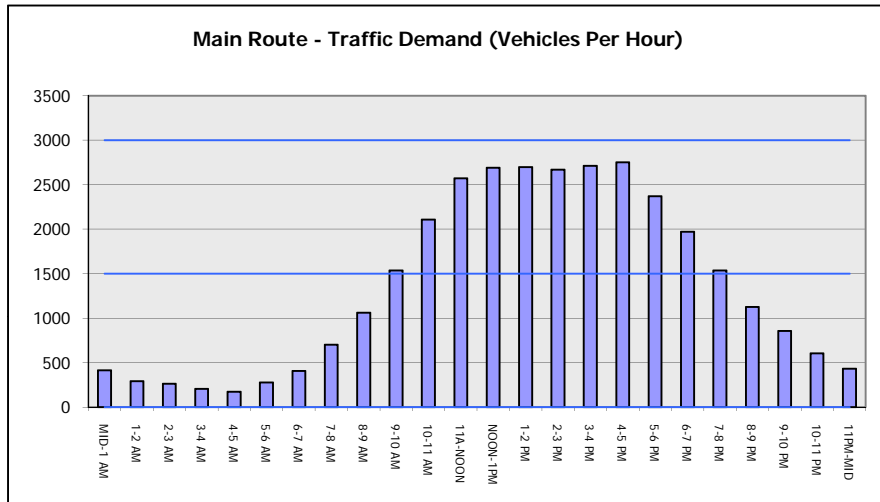
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$71,686
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

IH 39/90/94: USH 51 TO IH 94/STH 30 (DANE COUNTY)
CONTINUOUS (24 HOUR) 2 LANE CLOSURE
DIVERSION ROUTE: STH 30 - USH 51

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



IH 39/90/94: USH 51 TO IH 94/STH 30 (DANE COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: STH 30 - USH 51	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY 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	414	0.0	135	0.0	1500	414	0	135	0.52	0	70.2	63.3	43.8	39.1	39.1
1-2 AM	270	0.0	88	0.0	1500	270	0	88	0.51	0	70.2	63.6	44.4	39.3	39.3
2-3 AM	225	0.0	73	0.0	1500	225	0	73	0.50	0	70.2	63.7	44.6	39.4	39.4
3-4 AM	162	0.0	53	0.0	1500	162	0	53	0.49	0	70.2	63.7	44.8	39.5	39.5
4-5 AM	173	0.0	57	0.0	1500	173	0	57	0.49	0	70.2	63.7	44.8	39.5	39.5
5-6 AM	218	0.0	71	0.0	1500	218	0	71	0.50	0	70.2	63.7	44.6	39.4	39.4
6-7 AM	423	0.0	137	0.0	1500	423	0	137	0.52	0	70.2	63.3	43.8	39.1	39.1
7-8 AM	616	0.0	201	0.0	1500	616	0	201	0.55	0	70.0	62.9	43.1	38.8	38.8
8-9 AM	1004	0.0	326	0.0	1499	1004	0	326	0.59	0	69.5	62.0	41.5	38.2	38.2
9-10 AM	1601	0.0	521	0.0	1499	1601	0	521	2.04	30	68.7	48.7	31.2	37.3	37.3
10-11 AM	2174	0.0	708	0.0	1499	1573	601	1309+	8.04	183	68.1	26.1	30.8	36.3	33.4
11A-NOON	2734	0.0	890	0.0	1499	1541	1193	2084+	9.66	227	67.3	23.2	30.8	35.5	29.7
NOON-1PM	2979	0.0	970	0.0	1500	1518	1461	2431+	10.52	250	67.0	21.9	30.8	35.1	28.0
1-2 PM	3132	0.0	1020	0.0	1500	1514	1618	2638+	11.08	265	66.8	21.1	30.8	34.8	27.0
2-3 PM	3264	0.0	1063	0.0	1500	1513	1751	2814+	11.59	279	66.7	20.4	30.8	34.7	26.2
3-4 PM	3335	0.0	1086	0.0	1500	1506	1829	2915+	11.90	287	66.6	20.1	30.8	34.5	25.7
4-5 PM	3327	0.0	1083	0.0	1500	1493	1833	2916+	11.91	287	66.6	20.1	30.8	34.5	25.7
5-6 PM	2956	0.0	963	0.0	1500	1460	1496	2459+	10.60	252	67.1	21.8	30.8	35.1	27.9
6-7 PM	2601	0.0	848	0.0	1499	1469	1132	1980+	9.43	221	67.5	23.6	30.8	35.6	30.2
7-8 PM	1989	0.0	648	0.0	1500	1459	531	1178	7.85	178	68.2	26.6	30.8	36.6	34.1
8-9 PM	1574	0.0	513	0.0	1499	1456	117	630	6.76	148	68.8	29.1	30.8	37.3	36.7
9-10 PM	1038	0.0	338	0.0	1500	1038	0	338	1.29	22	69.4	55.0	39.8	38.1	38.1
10-11 PM	668	0.0	218	0.0	1500	668	0	218	0.55	0	69.9	62.8	42.8	38.7	38.7
11PM-MID	453	0.0	148	0.0	1500	453	0	148	0.53	0	70.2	63.3	43.7	39.1	39.1

+ 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	0.0338
MAIN ROUTE WITH WORKS	0.0200
DIVERSION	0.2624

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$101,100
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

IH 39/90/94: USH 51 TO IH 94/STH 30 (DANE COUNTY)
CONTINUOUS (24 HOUR) 2 LANE CLOSURE
DIVERSION ROUTE: STH 30 - USH 51

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

