

**IH 39/90/94: STH 60 TO USH 51 (DANE AND COLUMBIA COUNTIES)  
CONTINUOUS (24 HOUR) 2 LANE CLOSURE  
DIVERSION ROUTE: USH 51 - STH 60**

**MAY**  
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	221	0.0	58	0.0	1500	221	0	58	0.50	0	70.2	67.1	44.6	39.0	39.0
1-2 AM	146	0.0	39	0.0	1500	146	0	39	0.49	0	70.2	67.2	44.9	39.2	39.2
2-3 AM	99	0.0	26	0.0	1500	99	0	26	0.48	0	70.2	67.2	45.1	39.4	39.4
3-4 AM	98	0.0	26	0.0	1500	98	0	26	0.48	0	70.2	67.2	45.1	39.4	39.4
4-5 AM	109	0.0	28	0.0	1500	109	0	28	0.49	0	70.2	67.2	45.1	39.4	39.4
5-6 AM	157	0.0	41	0.0	1500	157	0	41	0.49	0	70.2	67.1	44.8	39.2	39.2
6-7 AM	279	0.0	73	0.0	1500	279	0	73	0.51	0	70.2	67.1	44.3	38.8	38.8
7-8 AM	527	0.0	138	0.0	1500	527	0	138	0.54	0	70.0	66.8	43.4	38.0	38.0
8-9 AM	859	0.0	225	0.0	1500	859	0	225	0.57	0	69.7	66.2	42.2	36.9	36.9
9-10 AM	1285	0.0	337	0.0	1499	1285	0	337	0.82	0	69.1	64.4	36.1	35.6	35.6
10-11 AM	1685	0.0	443	0.0	1499	1685	0	443	3.67	73	68.6	51.7	30.8	34.2	34.2
11A-NOON	1893	0.0	497	0.0	1500	1893	0	497	14.72	374	68.4	29.6	30.8	33.6	33.6
NOON-1PM	1912	0.0	502	0.0	1499	1610	302	804	25.85	650	68.4	20.7	30.8	33.5	29.7
1-2 PM	1931	0.0	506	0.0	1499	1519	412	919	27.70	698	68.3	19.7	30.8	33.5	28.3
2-3 PM	1972	0.0	518	0.0	1500	1521	451	969	28.58	722	68.3	19.3	30.8	33.3	27.7
3-4 PM	1908	0.0	501	0.0	1499	1464	445	946	28.18	711	68.4	19.5	30.8	33.5	28.0
4-5 PM	1826	0.0	479	0.0	1499	1457	369	848	26.56	668	68.4	20.3	30.8	33.8	29.2
5-6 PM	1798	0.0	472	0.0	1500	1479	319	791	25.67	644	68.5	20.8	30.8	33.9	29.9
6-7 PM	1576	0.0	413	0.0	1499	1392	183	597	22.96	574	68.7	22.5	30.8	34.6	32.4
7-8 PM	1219	0.0	320	0.0	1499	1219	0	320	16.08	401	69.2	28.3	31.0	35.8	35.8
8-9 PM	902	0.0	236	0.0	1500	902	0	237	2.22	54	69.6	57.9	41.2	36.8	36.8
9-10 PM	641	0.0	168	0.0	1500	641	0	168	0.55	0	69.9	66.6	43.0	37.6	37.6
10-11 PM	425	0.0	112	0.0	1500	425	0	112	0.52	0	70.2	66.9	43.8	38.4	38.4
11PM-MID	322	0.0	85	0.0	1500	322	0	85	0.51	0	70.2	67.0	44.2	38.7	38.7

*----- 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	0.0485
MAIN ROUTE WITH WORKS	0.0420
DIVERSION	0.1886

PIA: Personal Injury Accidents

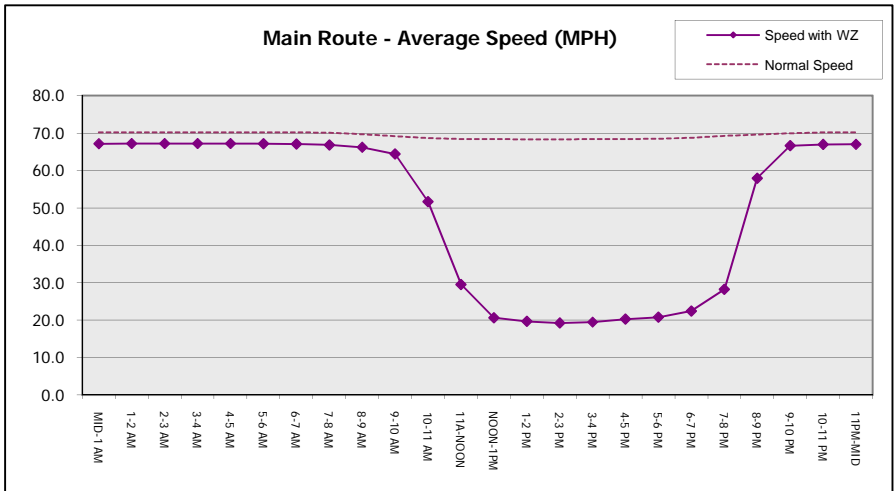
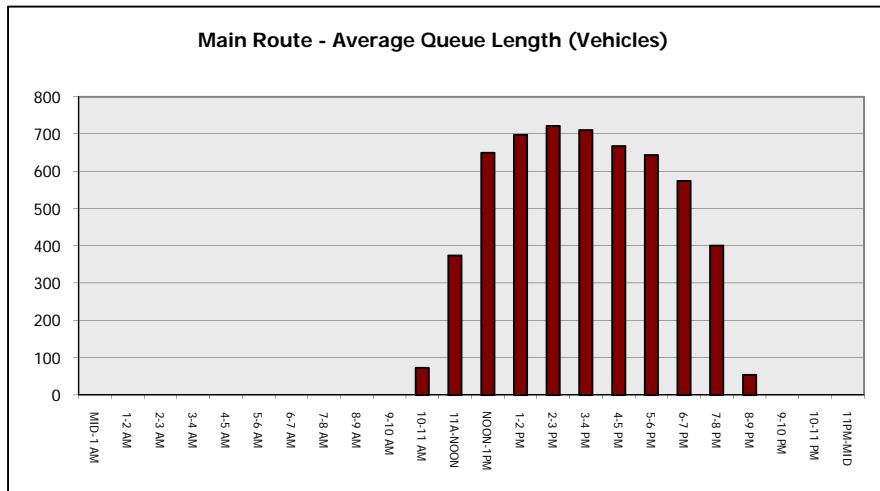
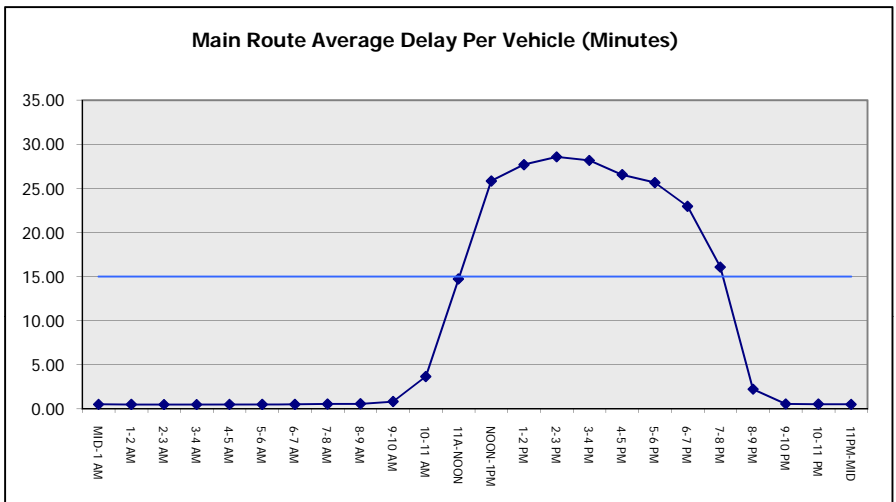
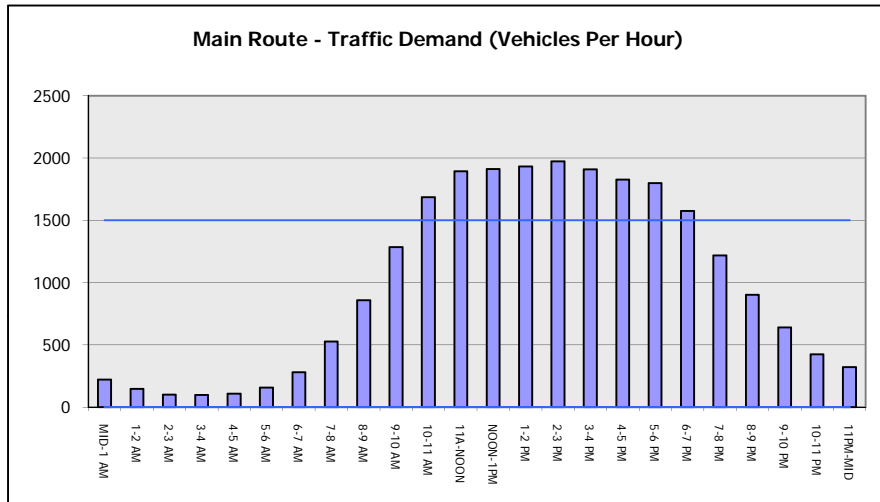
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$128,753
CONGESTED HOURS PER DAY*	8

\*Delays Exceeding 15 Minutes

**IH 39/90/94: STH 60 TO USH 51 (DANE AND COLUMBIA COUNTIES)**  
**CONTINUOUS (24 HOUR) 2 LANE CLOSURE**  
**DIVERSION ROUTE: USH 51 - STH 60**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY WESTBOUND DIRECTION**



<b>IH 39/90/94: STH 60 TO USH 51 (DANE AND COLUMBIA COUNTIES)</b> <b>CONTINUOUS (24 HOUR) 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: USH 51 - STH 60</b>	<b>MAY</b>
	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	276	0.0	72	0.0	1500	276	0	72	0.51	0	70.2	67.1	44.4	38.9	38.9
1-2 AM	203	0.0	53	0.0	1500	203	0	53	0.50	0	70.2	67.1	44.6	39.1	39.1
2-3 AM	189	0.0	49	0.0	1500	189	0	49	0.50	0	70.2	67.1	44.7	39.1	39.1
3-4 AM	149	0.0	39	0.0	1500	149	0	39	0.49	0	70.2	67.2	44.9	39.2	39.2
4-5 AM	140	0.0	37	0.0	1500	140	0	37	0.49	0	70.2	67.2	44.9	39.3	39.3
5-6 AM	195	0.0	51	0.0	1500	195	0	51	0.50	0	70.2	67.1	44.7	39.1	39.1
6-7 AM	270	0.0	71	0.0	1500	270	0	71	0.51	0	70.2	67.1	44.4	38.9	38.9
7-8 AM	496	0.0	130	0.0	1500	496	0	130	0.53	0	70.1	66.9	43.5	38.1	38.1
8-9 AM	891	0.0	233	0.0	1500	891	0	233	0.58	0	69.6	66.2	42.0	36.8	36.8
9-10 AM	1446	0.0	380	0.0	1499	1446	0	380	1.37	11	68.9	61.4	33.2	35.0	35.0
10-11 AM	2057	0.0	540	0.0	1500	2057	0	540	10.80	291	68.2	34.8	30.8	33.0	33.0
11A-NOON	2485	0.0	652	0.0	1499	1939	546	1198	33.01	850	67.6	17.3	30.8	31.7	24.8
NOON-1PM	2595	0.0	681	0.0	1499	1675	921	1602+	44.21	1135	67.5	13.8	30.8	31.3	19.9
1-2 PM	2615	0.0	686	0.0	1499	1501	1114	1800+	47.84	1229	67.5	13.0	30.8	31.2	18.6
2-3 PM	2862	0.0	751	0.0	1499	1500	1362	2113+	47.79	1229	67.2	13.0	30.8	30.4	18.6
3-4 PM	2996	0.0	786	0.0	1499	1500	1496	2282+	47.77	1229	67.0	13.0	30.8	30.0	18.6
4-5 PM	2884	0.0	757	0.0	1499	1500	1384	2141+	47.79	1229	67.1	13.0	30.8	30.4	18.6
5-6 PM	2623	0.0	689	0.0	1499	1500	1123	1811+	47.84	1229	67.5	13.0	30.8	31.2	18.6
6-7 PM	2221	0.0	583	0.0	1499	1241	980	1562+	42.96	1102	68.0	14.2	30.8	32.5	20.4
7-8 PM	1792	0.0	471	0.0	1499	1175	616	1087	30.84	786	68.5	18.3	30.8	33.9	26.3
8-9 PM	1506	0.0	396	0.0	1499	1351	154	550	22.32	557	68.9	22.9	30.8	34.8	32.9
9-10 PM	1075	0.0	283	0.0	1499	1075	0	283	11.30	297	69.4	34.3	34.0	36.2	36.2
10-11 PM	755	0.0	198	0.0	1500	755	0	198	0.66	2	69.8	65.8	42.5	37.3	37.3
11PM-MID	455	0.0	119	0.0	1500	455	0	119	0.53	0	70.2	66.9	43.7	38.3	38.3

+ 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	0.0676
MAIN ROUTE WITH WORKS	0.0463
DIVERSION	0.3977

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$347,883
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding 15 Minutes

**IH 39/90/94: STH 60 TO USH 51 (DANE AND COLUMBIA COUNTIES)**  
**CONTINUOUS (24 HOUR) 2 LANE CLOSURE**  
**DIVERSION ROUTE: USH 51 - STH 60**

**MAY**  
 Analyzed for 2009  
 Construction Season

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

