

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

**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	218	0.0	58	0.0	OFF	218	0	58	0.00	0	70.2	70.2	70.2	39.0	39.0
1-2 AM	166	0.0	44	0.0	OFF	166	0	44	0.00	0	70.2	70.2	70.2	39.2	39.2
2-3 AM	118	0.0	31	0.0	OFF	118	0	31	0.00	0	70.2	70.2	70.2	39.4	39.4
3-4 AM	114	0.0	30	0.0	OFF	114	0	30	0.00	0	70.2	70.2	70.2	39.4	39.4
4-5 AM	116	0.0	30	0.0	OFF	116	0	30	0.00	0	70.2	70.2	70.2	39.4	39.4
5-6 AM	182	0.0	48	0.0	OFF	182	0	48	0.00	0	70.2	70.2	70.2	39.1	39.1
6-7 AM	271	0.0	71	0.0	OFF	271	0	71	0.00	0	70.2	70.2	70.2	38.9	38.9
7-8 AM	492	0.0	129	0.0	OFF	492	0	129	0.00	0	70.1	70.1	70.1	38.1	38.1
8-9 AM	808	0.0	212	0.0	OFF	808	0	212	0.00	0	69.7	69.7	69.7	37.1	37.1
9-10 AM	1219	0.0	320	0.0	1499	1219	0	320	0.73	0	69.2	65.0	38.1	35.8	35.8
10-11 AM	1612	0.0	424	0.0	1499	1612	0	424	2.36	35	68.7	56.8	30.8	34.5	34.5
11A-NOON	1876	0.0	493	0.0	1500	1876	0	493	11.46	289	68.4	33.8	30.8	33.6	33.6
NOON-1PM	1959	0.0	514	0.0	1499	1722	238	751	25.04	632	68.3	21.2	30.8	33.3	30.4
1-2 PM	2043	0.0	537	0.0	1499	1562	482	1019	29.46	745	68.2	18.9	30.8	33.1	27.1
2-3 PM	2037	0.0	535	0.0	1500	1499	539	1073	30.52	773	68.2	18.4	30.8	33.1	26.4
3-4 PM	1983	0.0	520	0.0	1500	1467	516	1036	29.81	754	68.2	18.7	30.8	33.3	26.9
4-5 PM	1911	0.0	501	0.0	1499	1452	459	960	28.42	717	68.4	19.4	30.8	33.5	27.8
5-6 PM	1682	0.0	442	0.0	1499	1380	302	744	24.98	627	68.6	21.2	30.8	34.3	30.5
6-7 PM	1374	0.0	361	0.0	1499	1332	41	402	19.74	490	69.1	24.8	30.8	35.3	34.8
7-8 PM	1095	0.0	288	0.0	OFF	1095	0	288	0.24	16	69.4	67.9	67.9	36.1	36.1
8-9 PM	804	0.0	211	0.0	OFF	804	0	211	0.00	0	69.7	69.7	69.7	37.1	37.1
9-10 PM	581	0.0	153	0.0	OFF	581	0	153	0.00	0	70.0	70.0	70.0	37.8	37.8
10-11 PM	422	0.0	111	0.0	OFF	422	0	111	0.00	0	70.2	70.2	70.2	38.4	38.4
11PM-MID	296	0.0	77	0.0	OFF	296	0	77	0.00	0	70.2	70.2	70.2	38.8	38.8

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

*----- 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	0.0476
MAIN ROUTE WITH WORKS	0.0414
DIVERSION	0.1884

PIA: Personal Injury Accidents

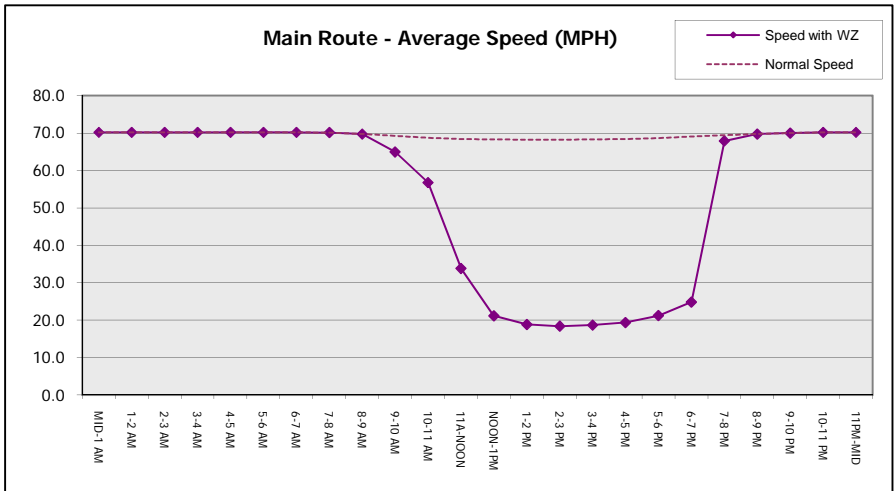
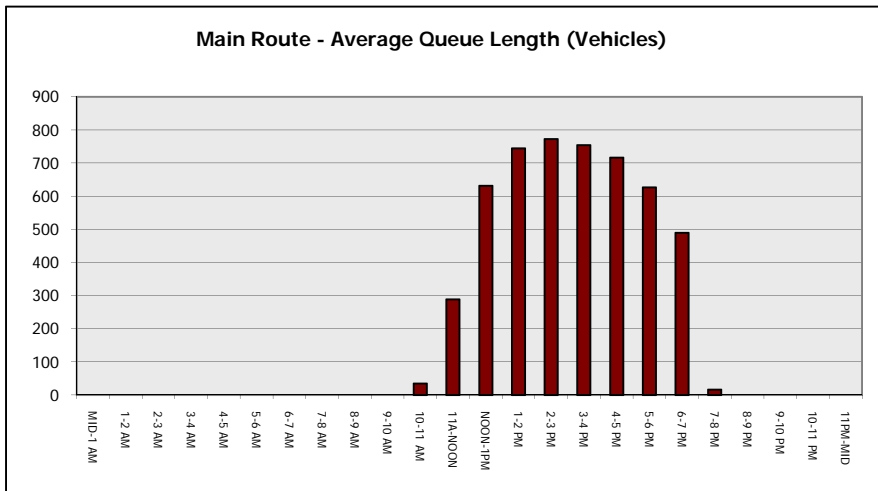
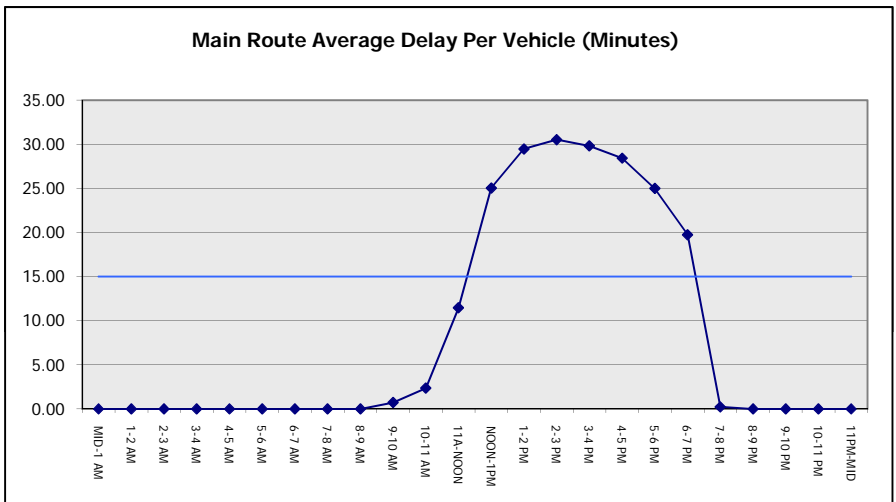
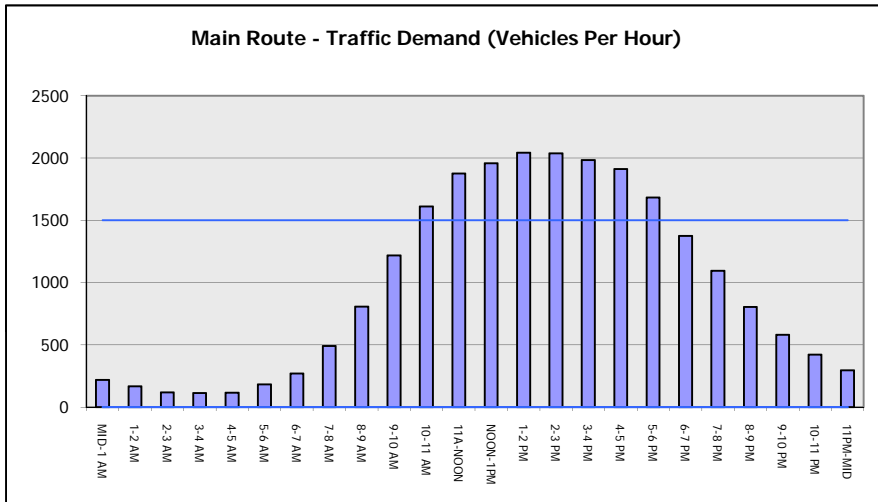
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$120,392
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding 15 Minutes

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

**OCTOBER**  
 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>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: USH 51 - STH 60</b>	<b>OCTOBER</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
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	291	0.0	76	0.0	OFF	291	0	76	0.00	0	70.2	70.2	70.2	38.8	38.8
1-2 AM	205	0.0	53	0.0	OFF	205	0	53	0.00	0	70.2	70.2	70.2	39.1	39.1
2-3 AM	187	0.0	49	0.0	OFF	187	0	49	0.00	0	70.2	70.2	70.2	39.1	39.1
3-4 AM	136	0.0	36	0.0	OFF	136	0	36	0.00	0	70.2	70.2	70.2	39.3	39.3
4-5 AM	157	0.0	41	0.0	OFF	157	0	41	0.00	0	70.2	70.2	70.2	39.2	39.2
5-6 AM	191	0.0	50	0.0	OFF	191	0	50	0.00	0	70.2	70.2	70.2	39.1	39.1
6-7 AM	263	0.0	69	0.0	OFF	263	0	69	0.00	0	70.2	70.2	70.2	38.9	38.9
7-8 AM	433	0.0	114	0.0	OFF	433	0	114	0.00	0	70.2	70.2	70.2	38.3	38.3
8-9 AM	764	0.0	201	0.0	OFF	764	0	201	0.00	0	69.8	69.8	69.8	37.3	37.3
9-10 AM	1409	0.0	370	0.0	1499	1409	0	370	1.31	11	69.0	61.7	34.2	35.1	35.1
10-11 AM	2208	0.0	580	0.0	1500	2185	23	602	12.42	349	68.0	32.4	30.8	32.5	32.3
11A-NOON	2878	0.0	755	0.0	1499	2139	739	1495+	40.67	1060	67.1	14.7	30.8	30.4	21.2
NOON-1PM	3183	0.0	835	0.0	1499	1497	1686	2521+	47.73	1229	66.8	13.0	30.8	29.4	18.6
1-2 PM	3459	0.0	908	0.0	1499	1497	1962	2870+	47.67	1229	66.4	13.0	30.8	28.4	18.6
2-3 PM	3580	0.0	940	0.0	1499	1497	2083	3022+	47.64	1229	66.3	13.0	30.8	28.1	18.6
3-4 PM	3670	0.0	964	0.0	1499	1497	2173	3136+	47.55	1229	65.8	13.0	30.8	27.8	18.6
4-5 PM	3671	0.0	964	0.0	1499	1497	2174	3137+	47.55	1229	65.8	13.0	30.8	27.8	18.6
5-6 PM	3203	0.0	841	0.0	1499	1497	1706	2547+	47.72	1229	66.8	13.0	30.8	29.3	18.6
6-7 PM	2542	0.0	666	0.0	1499	1234	1307	1974+	45.23	1164	67.6	13.5	30.8	31.5	19.5
7-8 PM	1980	0.0	519	0.0	OFF	1980	0	519	1.69	146	68.2	59.3	59.3	33.3	33.3
8-9 PM	1469	0.0	385	0.0	OFF	1469	0	385	0.00	0	68.9	68.9	68.9	35.0	35.0
9-10 PM	952	0.0	250	0.0	OFF	952	0	250	0.00	0	69.6	69.6	69.6	36.6	36.6
10-11 PM	596	0.0	156	0.0	OFF	596	0	156	0.00	0	70.0	70.0	70.0	37.8	37.8
11PM-MID	377	0.0	99	0.0	OFF	377	0	99	0.00	0	70.2	70.2	70.2	38.5	38.5

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0770
MAIN ROUTE WITH WORKS	0.0477
DIVERSION	0.5138

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$396,820
CONGESTED HOURS PER DAY*	8

\*Delays Exceeding 15 Minutes

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

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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

