

**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**

**AUGUST**  
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	261	0.0	68	0.0	1500	261	0	68	0.50	0	70.2	67.1	44.5	38.9	38.9
1-2 AM	186	0.0	49	0.0	1500	186	0	49	0.50	0	70.2	67.1	44.7	39.1	39.1
2-3 AM	130	0.0	35	0.0	1500	130	0	35	0.49	0	70.2	67.2	45.0	39.3	39.3
3-4 AM	110	0.0	28	0.0	1500	110	0	28	0.49	0	70.2	67.2	45.0	39.4	39.4
4-5 AM	117	0.0	30	0.0	1500	117	0	30	0.49	0	70.2	67.2	45.0	39.4	39.4
5-6 AM	178	0.0	46	0.0	1500	178	0	46	0.49	0	70.2	67.1	44.8	39.2	39.2
6-7 AM	309	0.0	82	0.0	1500	309	0	82	0.51	0	70.2	67.1	44.3	38.8	38.8
7-8 AM	578	0.0	152	0.0	1500	578	0	152	0.54	0	70.0	66.7	43.2	37.9	37.9
8-9 AM	1101	0.0	289	0.0	1499	1101	0	289	0.68	0	69.4	65.4	39.4	36.1	36.1
9-10 AM	1763	0.0	463	0.0	1499	1763	0	463	4.13	91	68.6	50.1	30.8	34.0	34.0
10-11 AM	2388	0.0	627	0.0	1500	2163	226	852	<b>23.32</b>	624	67.8	22.2	30.8	32.0	29.2
11A-NOON	2747	0.0	721	0.0	1500	1882	865	<b>1586+</b>	<b>43.63</b>	1125	67.3	14.0	30.8	30.8	20.1
NOON-1PM	2835	0.0	744	0.0	1500	1498	1336	<b>2080+</b>	<b>47.80</b>	1229	67.2	13.0	30.8	30.5	18.6
1-2 PM	2888	0.0	758	0.0	1500	1498	1389	<b>2147+</b>	<b>47.79</b>	1229	67.1	13.0	30.8	30.3	18.6
2-3 PM	2838	0.0	745	0.0	1500	1498	1339	<b>2084+</b>	<b>47.80</b>	1229	67.2	13.0	30.8	30.5	18.6
3-4 PM	2551	0.0	670	0.0	1500	1359	1191	<b>1861+</b>	<b>46.49</b>	1195	67.6	13.3	30.8	31.4	19.1
4-5 PM	2313	0.0	607	0.0	1500	1358	956	<b>1563+</b>	<b>42.94</b>	1100	67.9	14.2	30.8	32.2	20.3
5-6 PM	2034	0.0	534	0.0	1500	1268	766	<b>1300+</b>	<b>35.50</b>	906	68.2	16.4	30.8	33.1	23.6
6-7 PM	1669	0.0	438	0.0	1500	1276	393	832	<b>26.33</b>	665	68.7	20.5	30.8	34.3	29.4
7-8 PM	1359	0.0	357	0.0	1500	1322	36	393	<b>19.40</b>	481	69.1	25.2	30.8	35.3	34.8
8-9 PM	1080	0.0	284	0.0	1499	1080	0	284	7.07	193	69.4	42.4	35.5	36.2	36.2
9-10 PM	830	0.0	218	0.0	1500	830	0	218	0.57	0	69.7	66.3	42.3	37.0	37.0
10-11 PM	593	0.0	156	0.0	1500	593	0	156	0.54	0	70.0	66.7	43.2	37.8	37.8
11PM-MID	400	0.0	105	0.0	1500	400	0	105	0.52	0	70.2	67.0	43.9	38.4	38.4

+ 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	0.0637
MAIN ROUTE WITH WORKS	0.0449
DIVERSION	0.3610

PIA: Personal Injury Accidents

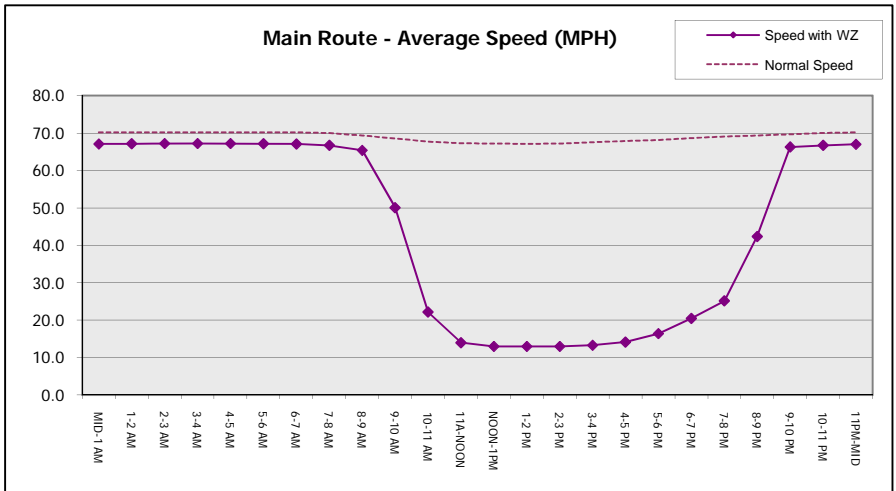
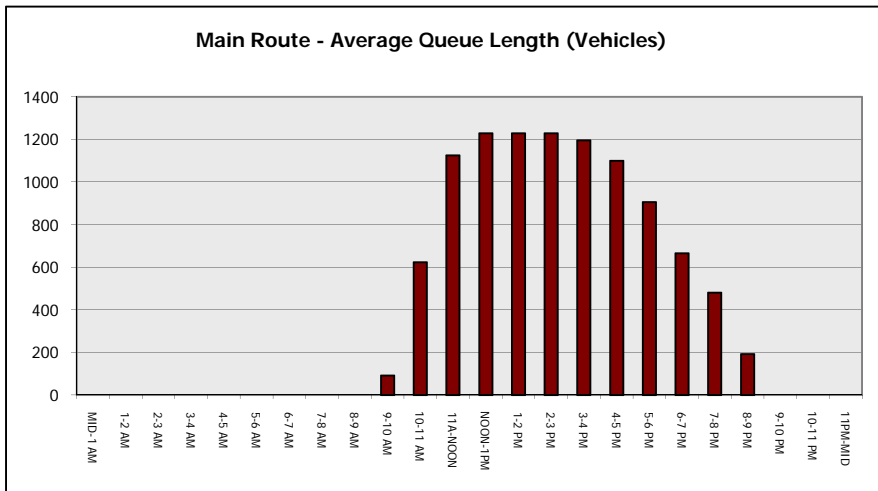
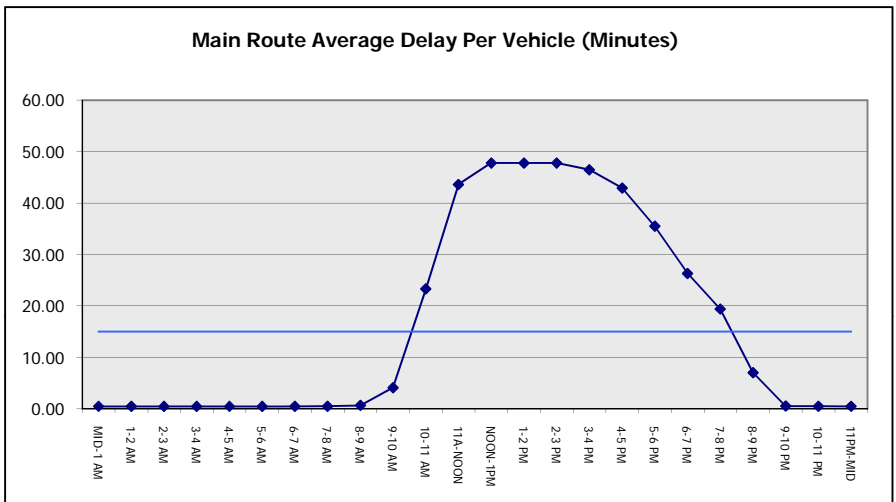
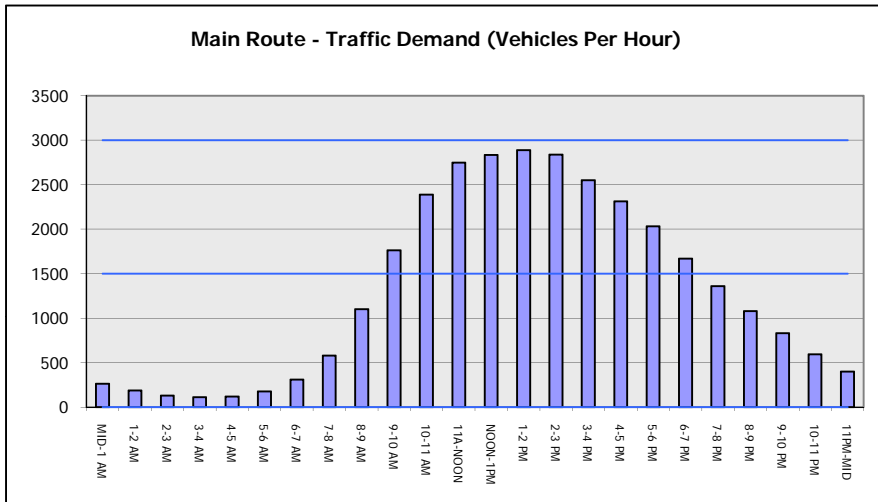
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$315,671
CONGESTED HOURS PER DAY*	10

\*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**

**AUGUST**  
 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>AUGUST</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	378	0.0	99	0.0	1500	378	0	99	0.52	0	70.2	67.0	44.0	38.5	38.5
1-2 AM	292	0.0	76	0.0	1500	292	0	76	0.51	0	70.2	67.1	44.3	38.8	38.8
2-3 AM	248	0.0	65	0.0	1500	248	0	65	0.50	0	70.2	67.1	44.5	38.9	38.9
3-4 AM	193	0.0	50	0.0	1500	193	0	50	0.50	0	70.2	67.1	44.7	39.1	39.1
4-5 AM	187	0.0	49	0.0	1500	187	0	49	0.50	0	70.2	67.1	44.7	39.1	39.1
5-6 AM	226	0.0	60	0.0	1500	226	0	60	0.50	0	70.2	67.1	44.6	39.0	39.0
6-7 AM	317	0.0	83	0.0	1500	317	0	83	0.51	0	70.2	67.1	44.2	38.7	38.7
7-8 AM	542	0.0	142	0.0	1500	542	0	142	0.54	0	70.0	66.8	43.3	38.0	38.0
8-9 AM	1008	0.0	265	0.0	1499	1008	0	265	0.62	0	69.5	65.8	40.8	36.5	36.5
9-10 AM	1859	0.0	488	0.0	1499	1859	0	488	4.97	122	68.4	47.4	30.8	33.7	33.7
10-11 AM	2843	0.0	746	0.0	1500	2411	432	1178	30.82	835	67.2	18.2	30.8	30.5	25.1
11A-NOON	3656	0.0	960	0.0	1499	1499	2157	3116+	47.57	1229	65.9	13.0	30.8	27.8	18.6
NOON-1PM	4072	0.0	1068	0.0	1499	1499	2573	3641+	47.04	1229	63.0	13.0	30.8	26.5	18.6
1-2 PM	3987	0.0	1046	0.0	1499	1499	2488	3535+	47.15	1229	63.6	13.0	30.8	26.8	18.6
2-3 PM	3933	0.0	1032	0.0	1499	1499	2433	3465+	47.22	1229	64.0	13.0	30.8	27.0	18.6
3-4 PM	3948	0.0	1036	0.0	1499	1499	2449	3485+	47.21	1229	63.9	13.0	30.8	26.9	18.6
4-5 PM	4075	0.0	1069	0.0	1499	1499	2576	3645+	47.04	1229	63.0	13.0	30.8	26.5	18.6
5-6 PM	3594	0.0	944	0.0	1499	1499	2095	3038+	47.64	1229	66.3	13.0	30.8	28.0	18.6
6-7 PM	3436	0.0	902	0.0	1499	1499	1937	2839+	47.67	1229	66.4	13.0	30.8	28.6	18.6
7-8 PM	2961	0.0	777	0.0	1499	1499	1461	2239+	47.77	1229	67.1	13.0	30.8	30.1	18.6
8-9 PM	2297	0.0	603	0.0	1499	1239	1058	1661+	45.30	1164	67.9	13.5	30.8	32.2	19.5
9-10 PM	1498	0.0	393	0.0	1499	976	522	915	27.70	715	68.9	19.7	30.8	34.8	28.4
10-11 PM	976	0.0	256	0.0	1499	976	0	256	8.47	245	69.5	39.4	36.3	36.6	36.6
11PM-MID	588	0.0	155	0.0	1500	588	0	155	0.54	0	70.0	66.7	43.2	37.8	37.8

+ 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	0.0960
MAIN ROUTE WITH WORKS	0.0491
DIVERSION	0.7467

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$605,433
CONGESTED HOURS PER DAY*	12

\*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**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

