

**IH 39/90: BELTLINE TO STH 73 (DANE COUNTY)  
CONTINUOUS (24 HOUR) CLOSURE  
DIVERSION ROUTE: STH 73 - USH 12**

**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	374	0.0	67	0.0	1500	374	0	67	0.46	0	65.7	63.9	44.0	38.9	38.9
1-2 AM	242	0.0	43	0.0	1500	242	0	43	0.45	0	66.0	64.1	44.5	39.2	39.2
2-3 AM	224	0.0	40	0.0	1500	224	0	40	0.44	0	66.0	64.2	44.6	39.2	39.2
3-4 AM	175	0.0	31	0.0	1500	175	0	31	0.44	0	66.1	64.3	44.8	39.4	39.4
4-5 AM	200	0.0	36	0.0	1500	200	0	36	0.44	0	66.0	64.3	44.7	39.3	39.3
5-6 AM	284	0.0	50	0.0	1500	284	0	50	0.45	0	65.8	64.1	44.3	39.1	39.1
6-7 AM	447	0.0	80	0.0	1500	447	0	80	0.47	0	65.6	63.7	43.7	38.8	38.8
7-8 AM	785	0.0	140	0.0	1500	785	0	140	0.50	0	64.9	63.0	42.5	38.0	38.0
8-9 AM	1232	0.0	221	0.0	1499	1232	0	221	0.69	0	64.1	61.5	37.6	37.0	37.0
9-10 AM	1834	0.0	329	0.0	1499	1834	0	329	5.41	133	63.0	47.8	30.8	35.6	35.6
10-11 AM	2314	0.0	414	0.0	1500	2047	266	681	23.78	643	62.1	26.1	30.8	34.6	31.3
11A-NOON	2582	0.0	463	0.0	1500	1769	814	1276+	37.84	1022	60.1	19.3	30.8	34.0	23.9
NOON-1PM	2732	0.0	490	0.0	1500	1689	1043	1532+	45.93	1251	58.5	16.7	30.8	33.7	20.7
1-2 PM	2714	0.0	487	0.0	1500	1558	1156	1643+	50.56	1374	58.7	15.6	30.8	33.7	19.3
2-3 PM	2664	0.0	477	0.0	1500	1478	1186	1663+	51.60	1398	59.2	15.4	30.8	33.8	19.1
3-4 PM	2371	0.0	425	0.0	1500	1261	1111	1535+	47.07	1257	62.0	16.6	30.8	34.5	20.7
4-5 PM	2249	0.0	403	0.0	1500	1333	916	1318+	39.71	1055	62.2	18.8	30.8	34.7	23.3
5-6 PM	1949	0.0	350	0.0	1500	1270	679	1029	32.26	852	62.8	21.7	30.8	35.4	27.0
6-7 PM	1678	0.0	300	0.0	1499	1343	336	636	24.84	647	63.3	25.6	30.8	36.0	31.9
7-8 PM	1677	0.0	300	0.0	1500	1488	190	490	22.58	584	63.3	27.1	30.8	36.0	33.7
8-9 PM	1384	0.0	248	0.0	1499	1339	46	294	19.35	495	63.8	29.7	30.8	36.6	36.1
9-10 PM	1050	0.0	188	0.0	1499	1050	0	188	7.37	202	64.5	44.6	36.0	37.4	37.4
10-11 PM	811	0.0	145	0.0	1500	811	0	145	0.50	0	64.9	63.0	42.4	37.9	37.9
11PM-MID	600	0.0	108	0.0	1500	600	0	108	0.48	0	65.3	63.4	43.2	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	0.0928
MAIN ROUTE WITH WORKS	0.0691
DIVERSION	0.3540

PIA: Personal Injury Accidents

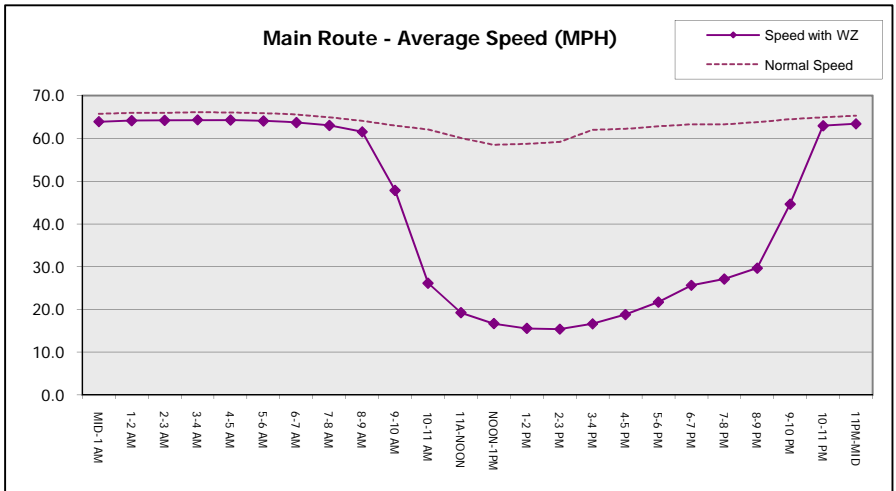
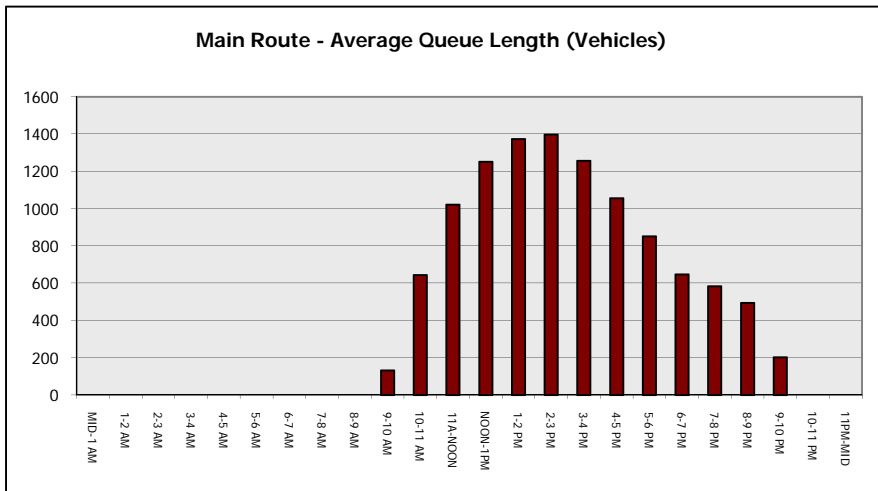
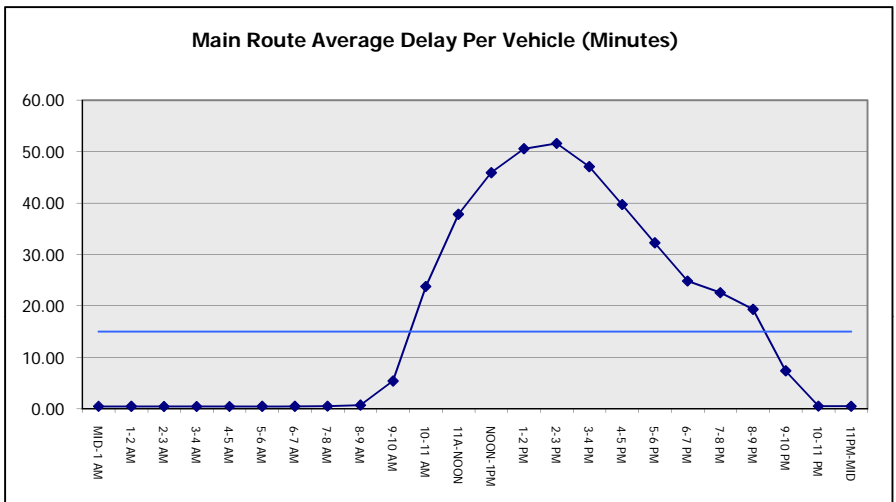
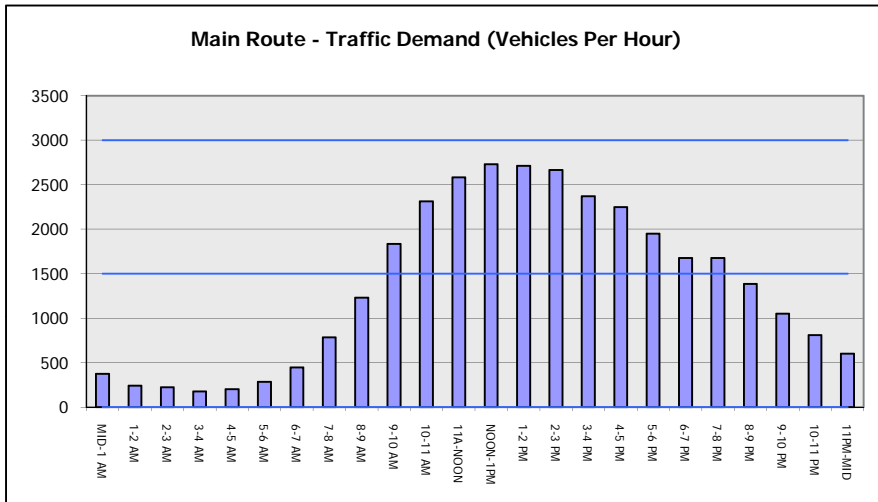
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$301,329
CONGESTED HOURS PER DAY*	11

\*Delays Exceeding 15 Minutes

**IH 39/90: BELTLINE TO STH 73 (DANE COUNTY)  
 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: STH 73 - USH 12**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



<b>IH 39/90: BELTLINE TO STH 73 (DANE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: STH 73 - USH 12</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	452	0.0	81	0.0	1500	452	0	81	0.47	0	65.5	63.7	43.7	38.8	38.8
1-2 AM	361	0.0	65	0.0	1500	361	0	65	0.46	0	65.7	63.9	44.0	38.9	38.9
2-3 AM	312	0.0	55	0.0	1500	312	0	55	0.45	0	65.8	64.0	44.2	39.1	39.1
3-4 AM	244	0.0	44	0.0	1500	244	0	44	0.45	0	66.0	64.1	44.5	39.2	39.2
4-5 AM	219	0.0	39	0.0	1500	219	0	39	0.44	0	66.0	64.2	44.6	39.2	39.2
5-6 AM	252	0.0	45	0.0	1500	252	0	45	0.45	0	65.9	64.1	44.5	39.2	39.2
6-7 AM	459	0.0	83	0.0	1500	459	0	83	0.47	0	65.5	63.7	43.7	38.7	38.7
7-8 AM	769	0.0	138	0.0	1500	769	0	138	0.50	0	65.0	63.0	42.5	38.0	38.0
8-9 AM	1226	0.0	220	0.0	1499	1226	0	220	0.69	0	64.1	61.5	37.6	37.0	37.0
9-10 AM	1914	0.0	343	0.0	1499	1914	0	343	6.12	159	62.8	46.3	30.8	35.5	35.5
10-11 AM	2756	0.0	494	0.0	1500	2277	479	973	29.70	840	58.2	22.3	30.8	33.6	27.6
11A-NOON	3354	0.0	601	0.0	1499	1659	1695	2296+	49.43	1406	52.2	15.3	30.8	32.3	19.0
NOON-1PM	3536	0.0	633	0.0	1499	1504	2031	2664+	50.11	1444	50.3	15.0	30.8	31.9	18.6
1-2 PM	3683	0.0	659	0.0	1499	1505	2179	2838+	49.44	1444	48.7	15.0	30.8	31.5	18.6
2-3 PM	3744	0.0	671	0.0	1499	1504	2240	2911+	49.16	1444	48.1	15.0	30.8	31.4	18.6
3-4 PM	3854	0.0	691	0.0	1499	1504	2350	3041+	48.63	1444	47.0	15.0	30.8	31.2	18.6
4-5 PM	3552	0.0	636	0.0	1499	1504	2048	2685+	50.03	1444	50.1	15.0	30.8	31.9	18.6
5-6 PM	3543	0.0	634	0.0	1499	1504	2039	2674+	50.07	1444	50.2	15.0	30.8	31.9	18.6
6-7 PM	3330	0.0	596	0.0	1499	1503	1826	2423+	50.97	1444	52.4	15.0	30.8	32.4	18.6
7-8 PM	2909	0.0	521	0.0	1499	1503	1406	1927+	52.53	1444	56.7	15.0	30.8	33.3	18.6
8-9 PM	2399	0.0	430	0.0	1499	1261	1138	1568+	48.36	1292	61.9	16.3	30.8	34.4	20.2
9-10 PM	1698	0.0	305	0.0	1499	964	734	1039	32.62	870	63.2	21.7	30.8	36.0	26.8
10-11 PM	1032	0.0	185	0.0	1499	994	38	223	13.74	371	64.5	35.3	34.2	37.4	36.9
11PM-MID	717	0.0	129	0.0	1500	717	0	129	0.72	6	65.0	62.3	42.7	38.1	38.1

+ 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	0.1319
MAIN ROUTE WITH WORKS	0.0727
DIVERSION	0.7434

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$592,810
CONGESTED HOURS PER DAY*	12

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: STH 73 - USH 12**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

