

**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

MON-THUR 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	466	0.0	84	0.0	1500	466	0	84	0.47	0	65.5	63.7	43.7	38.7	38.7
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	376	0.0	67	0.0	1500	376	0	67	0.46	0	65.7	63.9	44.0	38.9	38.9
3-4 AM	366	0.0	66	0.0	1500	366	0	66	0.46	0	65.7	63.9	44.0	38.9	38.9
4-5 AM	576	0.0	104	0.0	1500	576	0	104	0.48	0	65.3	63.5	43.2	38.4	38.4
5-6 AM	1070	0.0	191	0.0	1499	1070	0	191	0.57	0	64.4	62.2	40.2	37.4	37.4
6-7 AM	1579	0.0	283	0.0	1499	1579	0	283	1.72	20	63.5	57.6	30.8	36.2	36.2
7-8 AM	1731	0.0	310	0.0	1500	1731	0	310	8.01	195	63.2	42.9	30.8	35.9	35.9
8-9 AM	1589	0.0	285	0.0	1499	1589	0	285	14.25	358	63.4	34.5	30.8	36.2	36.2
9-10 AM	1668	0.0	299	0.0	1500	1654	14	314	18.46	473	63.3	30.3	30.8	36.0	35.8
10-11 AM	1895	0.0	339	0.0	1499	1631	264	603	24.20	630	62.8	26.0	30.8	35.5	32.2
11A-NOON	1961	0.0	352	0.0	1499	1541	420	772	27.03	707	62.7	24.3	30.8	35.4	30.2
NOON-1PM	1998	0.0	358	0.0	1499	1522	475	833	28.16	738	62.7	23.7	30.8	35.3	29.4
1-2 PM	2001	0.0	359	0.0	1499	1508	493	852	28.52	748	62.7	23.5	30.8	35.3	29.2
2-3 PM	2133	0.0	382	0.0	1500	1574	558	940	30.24	796	62.4	22.6	30.8	35.0	28.1
3-4 PM	2129	0.0	381	0.0	1500	1504	625	1006	31.67	835	62.4	22.0	30.8	35.0	27.3
4-5 PM	2063	0.0	369	0.0	1500	1455	609	978	31.08	818	62.5	22.2	30.8	35.1	27.6
5-6 PM	1797	0.0	322	0.0	1500	1343	454	776	27.20	712	63.0	24.3	30.8	35.8	30.1
6-7 PM	1440	0.0	257	0.0	1499	1328	112	369	20.85	536	63.7	28.5	30.8	36.6	35.1
7-8 PM	1247	0.0	224	0.0	1499	1247	0	224	13.60	343	64.1	35.3	30.9	36.9	36.9
8-9 PM	1102	0.0	198	0.0	1499	1102	0	198	2.56	59	64.3	55.8	38.3	37.3	37.3
9-10 PM	941	0.0	168	0.0	1500	941	0	168	0.51	0	64.6	62.7	41.9	37.6	37.6
10-11 PM	772	0.0	138	0.0	1500	772	0	138	0.50	0	65.0	63.0	42.5	38.0	38.0
11PM-MID	546	0.0	97	0.0	1500	546	0	97	0.48	0	65.4	63.5	43.3	38.6	38.6

----- 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	0.0906
MAIN ROUTE WITH WORKS	0.0773
DIVERSION	0.2536

PIA: Personal Injury Accidents

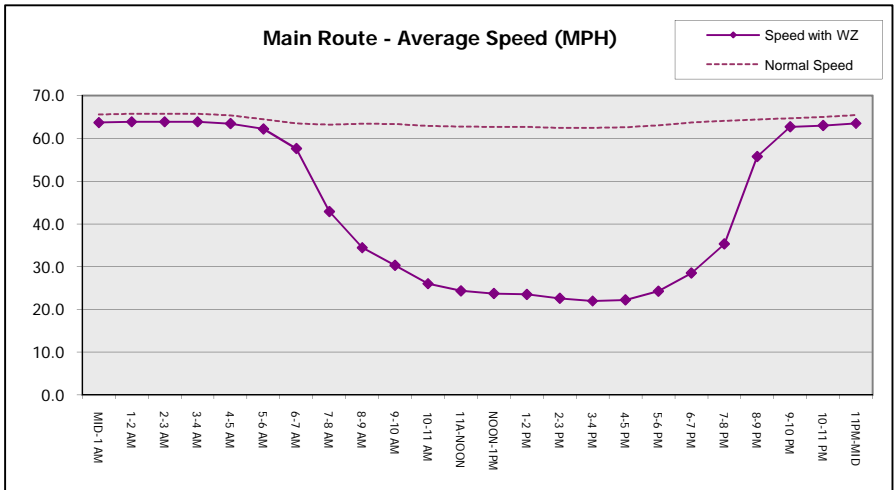
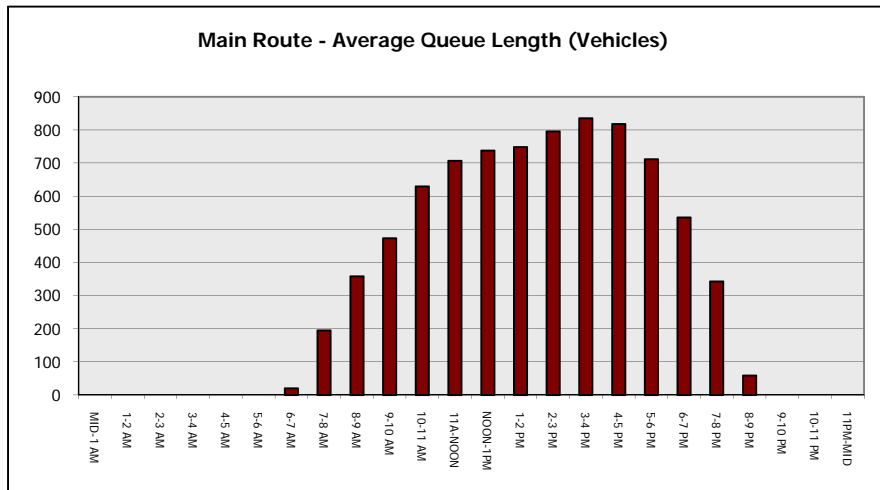
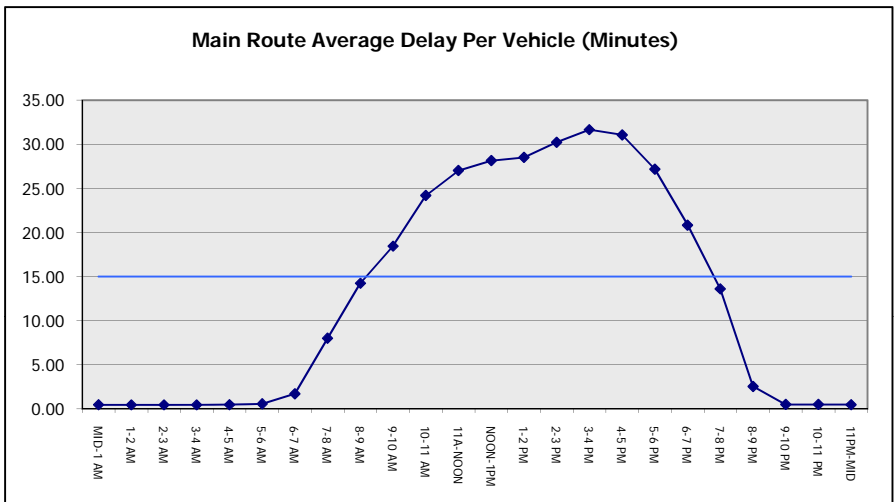
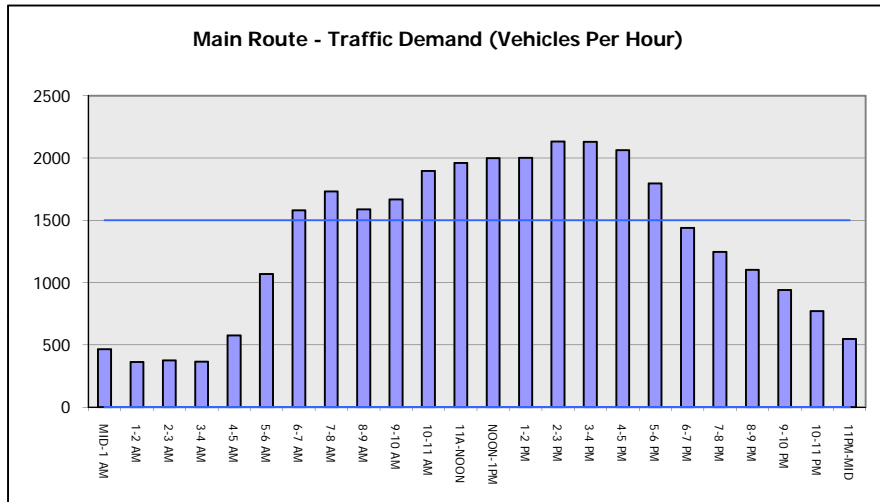
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$141,264
CONGESTED HOURS PER DAY*	10

*Delays Exceeding 15 Minutes

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

AUGUST
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



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

MON-THUR 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	458	0.0	83	0.0	1500	458	0	83	0.47	0	65.5	63.7	43.7	38.7	38.7
1-2 AM	373	0.0	67	0.0	1500	373	0	67	0.46	0	65.7	63.9	44.0	38.9	38.9
2-3 AM	392	0.0	70	0.0	1500	392	0	70	0.46	0	65.6	63.8	43.9	38.9	38.9
3-4 AM	452	0.0	81	0.0	1500	452	0	81	0.47	0	65.5	63.7	43.7	38.8	38.8
4-5 AM	559	0.0	100	0.0	1500	559	0	100	0.48	0	65.3	63.5	43.3	38.5	38.5
5-6 AM	735	0.0	132	0.0	1500	735	0	132	0.49	0	65.0	63.2	42.6	38.1	38.1
6-7 AM	1075	0.0	193	0.0	1499	1075	0	193	0.55	0	64.4	62.3	40.7	37.3	37.3
7-8 AM	1449	0.0	260	0.0	1499	1449	0	260	0.99	0	63.7	60.2	32.0	36.5	36.5
8-9 AM	1543	0.0	276	0.0	1500	1543	0	276	1.66	17	63.5	57.8	30.8	36.3	36.3
9-10 AM	1701	0.0	305	0.0	1500	1701	0	305	5.90	137	63.2	46.9	30.8	36.0	36.0
10-11 AM	1878	0.0	336	0.0	1500	1854	24	360	16.21	424	62.9	32.2	30.8	35.6	35.3
11A-NOON	2047	0.0	366	0.0	1499	1662	384	751	26.61	698	62.6	24.5	30.8	35.2	30.4
NOON-1PM	2101	0.0	377	0.0	1500	1549	552	928	30.01	789	62.5	22.7	30.8	35.1	28.2
1-2 PM	2188	0.0	392	0.0	1500	1562	626	1018	31.90	842	62.3	21.9	30.8	34.9	27.1
2-3 PM	2362	0.0	423	0.0	1500	1623	739	1162	35.27	935	62.0	20.4	30.8	34.5	25.3
3-4 PM	2541	0.0	455	0.0	1500	1650	891	1346+	40.07	1077	60.5	18.6	30.8	34.1	23.0
4-5 PM	2582	0.0	463	0.0	1500	1569	1013	1476+	44.28	1193	60.1	17.3	30.8	34.0	21.4
5-6 PM	2387	0.0	427	0.0	1500	1365	1022	1448+	43.87	1169	61.9	17.5	30.8	34.5	21.7
6-7 PM	1843	0.0	330	0.0	1500	1106	736	1066	33.18	880	63.0	21.4	30.8	35.6	26.5
7-8 PM	1492	0.0	267	0.0	1499	1302	190	457	22.19	574	63.6	27.4	30.8	36.5	34.1
8-9 PM	1301	0.0	233	0.0	1499	1301	0	233	15.94	404	64.0	32.8	30.8	36.8	36.8
9-10 PM	1080	0.0	194	0.0	1499	1080	0	194	4.31	113	64.4	51.2	37.3	37.3	37.3
10-11 PM	827	0.0	148	0.0	1500	827	0	148	0.50	0	64.8	62.9	42.3	37.9	37.9
11PM-MID	557	0.0	99	0.0	1500	557	0	99	0.48	0	65.3	63.5	43.3	38.5	38.5

+ 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	0.0966
MAIN ROUTE WITH WORKS	0.0772
DIVERSION	0.3195

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$184,792
CONGESTED HOURS PER DAY*	11

*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
MON-THUR EASTBOUND DIRECTION

