

IH 39/90: BELTLINE TO STH 73 (DANE COUNTY) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: STH 73 - USH 12	OCTOBER Analyzed for 2009 Construction Season
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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	460	0.0	83	0.0	OFF	460	0	83	0.00	0	65.5	65.5	65.5	38.7	38.7
1-2 AM	376	0.0	67	0.0	OFF	376	0	67	0.00	0	65.7	65.7	65.7	38.9	38.9
2-3 AM	406	0.0	73	0.0	OFF	406	0	73	0.00	0	65.6	65.6	65.6	38.8	38.8
3-4 AM	371	0.0	67	0.0	OFF	371	0	67	0.00	0	65.7	65.7	65.7	38.9	38.9
4-5 AM	511	0.0	91	0.0	OFF	511	0	91	0.00	0	65.5	65.5	65.5	38.6	38.6
5-6 AM	952	0.0	171	0.0	OFF	952	0	171	0.00	0	64.6	64.6	64.6	37.6	37.6
6-7 AM	1565	0.0	280	0.0	OFF	1565	0	280	0.00	0	63.5	63.5	63.5	36.3	36.3
7-8 AM	1746	0.0	313	0.0	OFF	1746	0	313	0.00	0	63.2	63.2	63.2	35.8	35.8
8-9 AM	1660	0.0	297	0.0	OFF	1660	0	297	0.00	0	63.3	63.3	63.3	36.1	36.1
9-10 AM	1784	0.0	319	0.0	1499	1784	0	319	5.44	130	63.0	47.8	30.8	35.8	35.8
10-11 AM	2046	0.0	366	0.0	1500	1930	116	482	19.50	519	62.6	29.3	30.8	35.2	33.8
11A-NOON	2243	0.0	402	0.0	1499	1677	566	968	30.77	813	62.2	22.4	30.8	34.8	27.7
NOON-1PM	2297	0.0	411	0.0	1499	1564	733	1144	34.86	923	62.1	20.6	30.8	34.7	25.5
1-2 PM	2411	0.0	432	0.0	1499	1593	818	1250+	37.61	1000	61.8	19.5	30.8	34.4	24.2
2-3 PM	2557	0.0	458	0.0	1499	1631	926	1384+	41.23	1109	60.3	18.2	30.8	34.0	22.5
3-4 PM	2795	0.0	500	0.0	1499	1725	1070	1570+	47.21	1291	57.9	16.3	30.8	33.5	20.2
4-5 PM	2934	0.0	525	0.0	OFF	2934	0	525	17.65	872	56.4	29.2	29.2	33.2	33.2
5-6 PM	2916	0.0	522	0.0	OFF	2916	0	522	2.04	53	56.6	51.1	51.1	33.3	33.3
6-7 PM	2530	0.0	453	0.0	OFF	2530	0	453	0.00	0	60.6	60.6	60.6	34.1	34.1
7-8 PM	2273	0.0	407	0.0	OFF	2273	0	407	0.00	0	62.2	62.2	62.2	34.7	34.7
8-9 PM	1986	0.0	356	0.0	OFF	1986	0	356	0.00	0	62.7	62.7	62.7	35.3	35.3
9-10 PM	1472	0.0	264	0.0	OFF	1472	0	264	0.00	0	63.7	63.7	63.7	36.5	36.5
10-11 PM	1029	0.0	184	0.0	OFF	1029	0	184	0.00	0	64.5	64.5	64.5	37.4	37.4
11PM-MID	615	0.0	110	0.0	OFF	615	0	110	0.00	0	65.3	65.3	65.3	38.4	38.4

"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	0.1138
MAIN ROUTE WITH WORKS	0.1009
DIVERSION	0.2968

PIA: Personal Injury Accidents

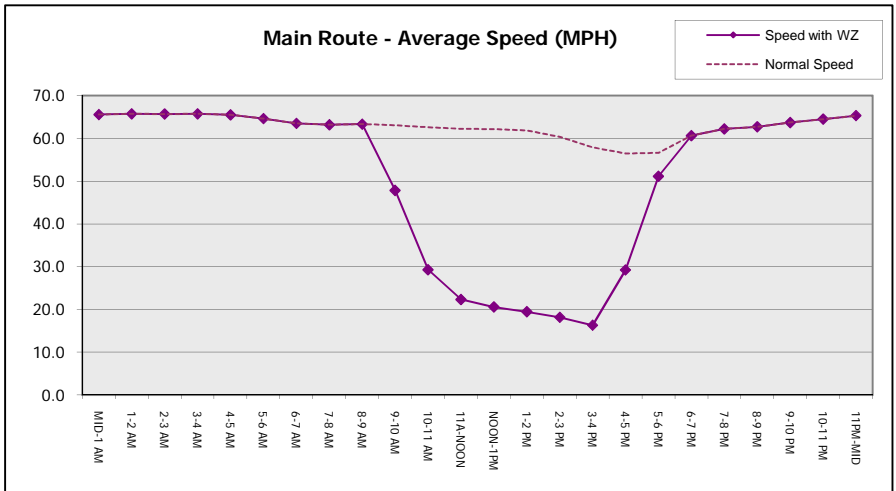
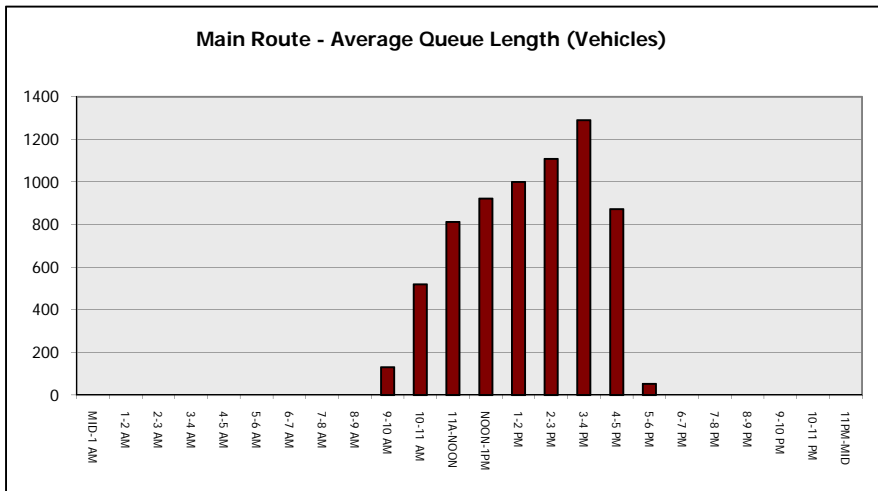
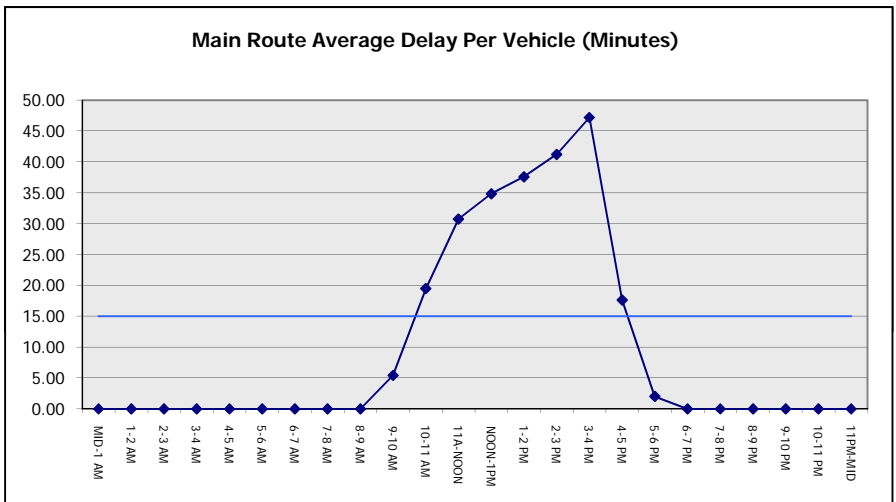
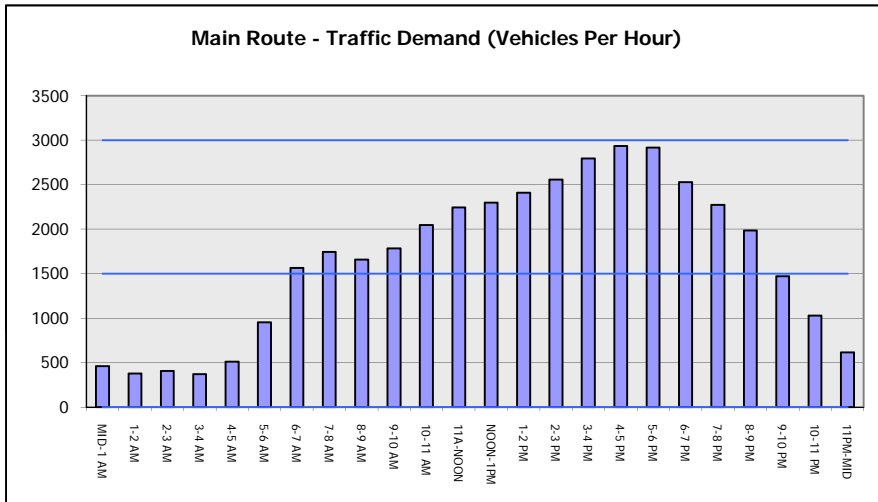
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$121,541
CONGESTED HOURS PER DAY*	7

*Delays Exceeding 15 Minutes

IH 39/90: BELTLINE TO STH 73 (DANE COUNTY)
OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: STH 73 - USH 12

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



IH 39/90: BELTLINE TO STH 73 (DANE COUNTY) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: STH 73 - USH 12	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT	
FRIDAY	EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								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		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	404	0.0	72	0.0	OFF	404	0	72	0.00	0	65.6	65.6	65.6	38.9	38.9
1-2 AM	347	0.0	62	0.0	OFF	347	0	62	0.00	0	65.8	65.8	65.8	39.0	39.0
2-3 AM	339	0.0	61	0.0	OFF	339	0	61	0.00	0	65.8	65.8	65.8	39.0	39.0
3-4 AM	411	0.0	73	0.0	OFF	411	0	73	0.00	0	65.6	65.6	65.6	38.8	38.8
4-5 AM	475	0.0	85	0.0	OFF	475	0	85	0.00	0	65.5	65.5	65.5	38.7	38.7
5-6 AM	587	0.0	106	0.0	OFF	587	0	106	0.00	0	65.3	65.3	65.3	38.4	38.4
6-7 AM	927	0.0	166	0.0	OFF	927	0	166	0.00	0	64.6	64.6	64.6	37.7	37.7
7-8 AM	1282	0.0	229	0.0	OFF	1282	0	229	0.00	0	64.0	64.0	64.0	36.9	36.9
8-9 AM	1447	0.0	259	0.0	OFF	1447	0	259	0.00	0	63.7	63.7	63.7	36.5	36.5
9-10 AM	1595	0.0	286	0.0	1499	1595	0	286	2.40	38	63.4	55.6	30.8	36.2	36.2
10-11 AM	1722	0.0	309	0.0	1500	1722	0	309	8.06	196	63.2	42.8	30.8	35.9	35.9
11A-NOON	1888	0.0	338	0.0	1500	1825	62	400	18.69	489	62.8	30.0	30.8	35.5	34.8
NOON-1PM	2085	0.0	374	0.0	1499	1653	432	806	27.60	725	62.5	24.0	30.8	35.1	29.7
1-2 PM	2256	0.0	404	0.0	1500	1620	636	1040	32.37	856	62.2	21.6	30.8	34.7	26.8
2-3 PM	2390	0.0	428	0.0	1500	1611	779	1207+	36.45	968	61.9	19.9	30.8	34.4	24.8
3-4 PM	2581	0.0	462	0.0	1500	1663	919	1381+	41.06	1107	60.1	18.2	30.8	34.0	22.6
4-5 PM	2709	0.0	485	0.0	OFF	2709	0	485	12.99	547	58.7	34.3	34.3	33.7	33.7
5-6 PM	2580	0.0	462	0.0	OFF	2580	0	462	0.00	0	60.1	60.1	60.1	34.0	34.0
6-7 PM	2062	0.0	369	0.0	OFF	2062	0	369	0.00	0	62.5	62.5	62.5	35.1	35.1
7-8 PM	1634	0.0	293	0.0	OFF	1634	0	293	0.00	0	63.3	63.3	63.3	36.1	36.1
8-9 PM	1253	0.0	224	0.0	OFF	1253	0	224	0.00	0	64.0	64.0	64.0	36.9	36.9
9-10 PM	1110	0.0	199	0.0	OFF	1110	0	199	0.00	0	64.3	64.3	64.3	37.3	37.3
10-11 PM	893	0.0	160	0.0	OFF	893	0	160	0.00	0	64.7	64.7	64.7	37.8	37.8
11PM-MID	619	0.0	111	0.0	OFF	619	0	111	0.00	0	65.2	65.2	65.2	38.4	38.4

"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	0.0957
MAIN ROUTE WITH WORKS	0.0869
DIVERSION	0.2307

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$85,643
CONGESTED HOURS PER DAY*	5

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: STH 73 - USH 12

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 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

