

IH 39/90: STH 73 TO USH 14 (ROCK AND DANE COUNTIES) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: USH 14 - USH 51	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	313	0.0	38	0.0	OFF	313	0	38	0.00	0	65.8	65.8	65.8	39.2	39.2
1-2 AM	203	0.0	25	0.0	OFF	203	0	25	0.00	0	66.0	66.0	66.0	39.4	39.4
2-3 AM	188	0.0	23	0.0	OFF	188	0	23	0.00	0	66.0	66.0	66.0	39.4	39.4
3-4 AM	146	0.0	17	0.0	OFF	146	0	17	0.00	0	66.1	66.1	66.1	39.6	39.6
4-5 AM	168	0.0	21	0.0	OFF	168	0	21	0.00	0	66.1	66.1	66.1	39.5	39.5
5-6 AM	238	0.0	29	0.0	OFF	238	0	29	0.00	0	66.0	66.0	66.0	39.4	39.4
6-7 AM	375	0.0	45	0.0	OFF	375	0	45	0.00	0	65.7	65.7	65.7	39.2	39.2
7-8 AM	658	0.0	79	0.0	OFF	658	0	79	0.00	0	65.1	65.1	65.1	38.8	38.8
8-9 AM	1033	0.0	125	0.0	OFF	1033	0	125	0.00	0	64.5	64.5	64.5	38.2	38.2
9-10 AM	1539	0.0	186	0.0	1499	1539	0	186	1.62	19	63.5	55.6	31.6	37.4	37.4
10-11 AM	1940	0.0	235	0.0	1500	1821	119	354	9.82	255	62.8	33.8	30.8	36.8	35.3
11A-NOON	2166	0.0	262	0.0	1499	1585	581	844	17.35	446	62.3	24.9	30.8	36.5	29.2
NOON-1PM	2292	0.0	277	0.0	1499	1547	746	1023	19.68	510	62.1	23.0	30.8	36.3	27.0
1-2 PM	2277	0.0	276	0.0	1499	1492	785	1061	20.24	525	62.2	22.6	30.8	36.3	26.6
2-3 PM	2235	0.0	271	0.0	1500	1475	759	1030	19.81	513	62.2	22.9	30.8	36.4	27.0
3-4 PM	1989	0.0	241	0.0	1499	1407	582	823	17.16	440	62.7	25.2	30.8	36.8	29.5
4-5 PM	1887	0.0	228	0.0	1500	1465	422	651	15.26	387	62.8	27.0	30.8	36.9	31.7
5-6 PM	1636	0.0	198	0.0	1499	1427	208	406	13.00	325	63.3	29.6	30.8	37.3	34.7
6-7 PM	1408	0.0	171	0.0	1499	1398	10	181	10.19	248	63.8	33.5	30.8	37.6	37.5
7-8 PM	1407	0.0	170	0.0	OFF	1407	0	170	0.17	7	63.8	62.8	62.8	37.6	37.6
8-9 PM	1161	0.0	141	0.0	OFF	1161	0	141	0.00	0	64.2	64.2	64.2	38.0	38.0
9-10 PM	881	0.0	107	0.0	OFF	881	0	107	0.00	0	64.8	64.8	64.8	38.4	38.4
10-11 PM	680	0.0	82	0.0	OFF	680	0	82	0.00	0	65.1	65.1	65.1	38.8	38.8
11PM-MID	502	0.0	61	0.0	OFF	502	0	61	0.00	0	65.5	65.5	65.5	39.0	39.0

"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	0.0522
MAIN ROUTE WITH WORKS	0.0431
DIVERSION	0.1245

PIA: Personal Injury Accidents

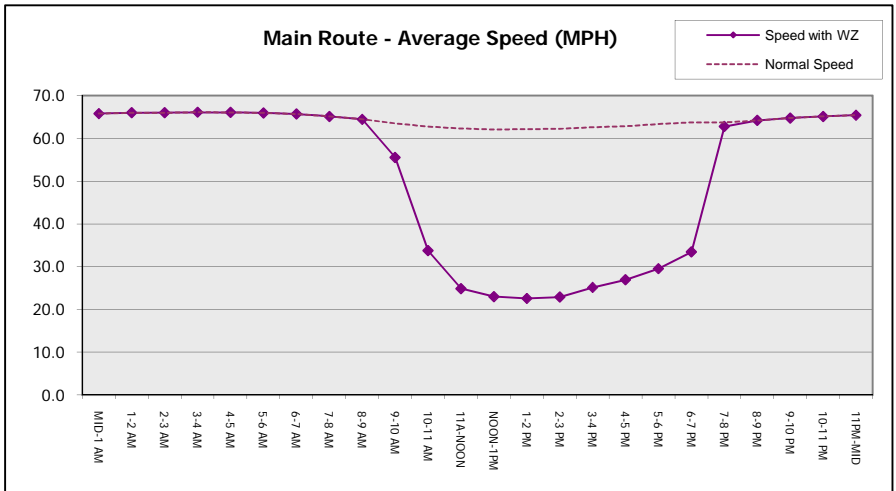
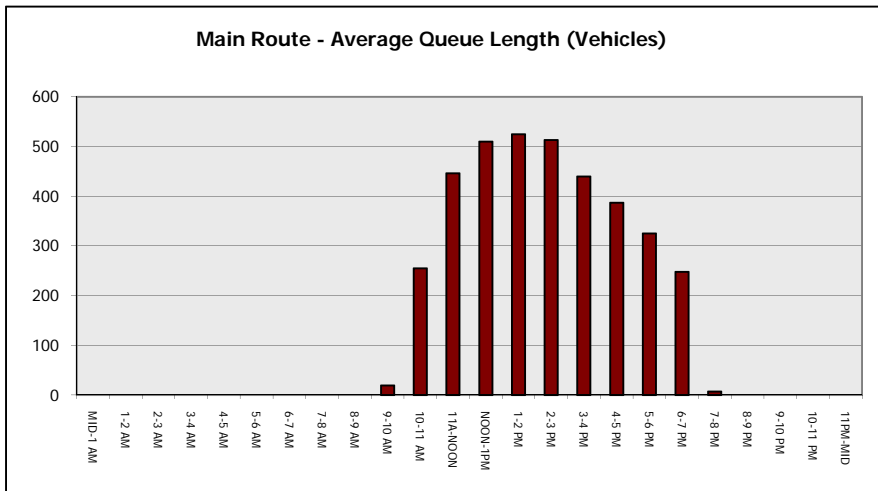
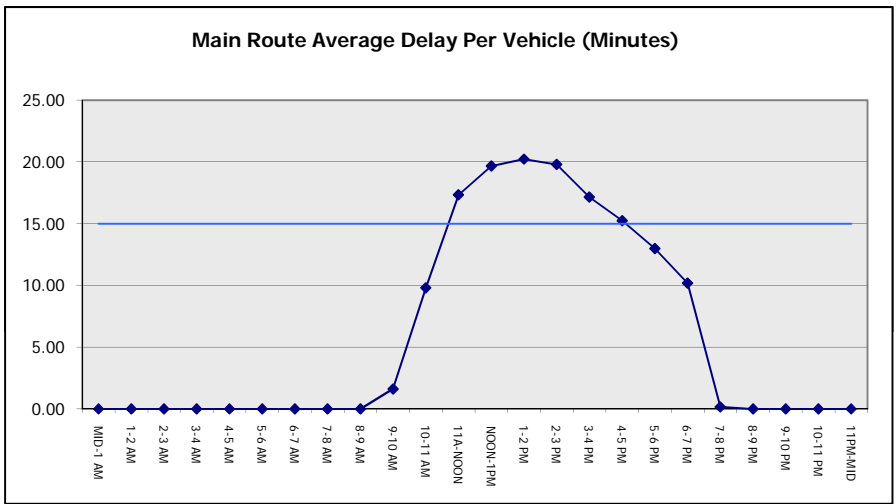
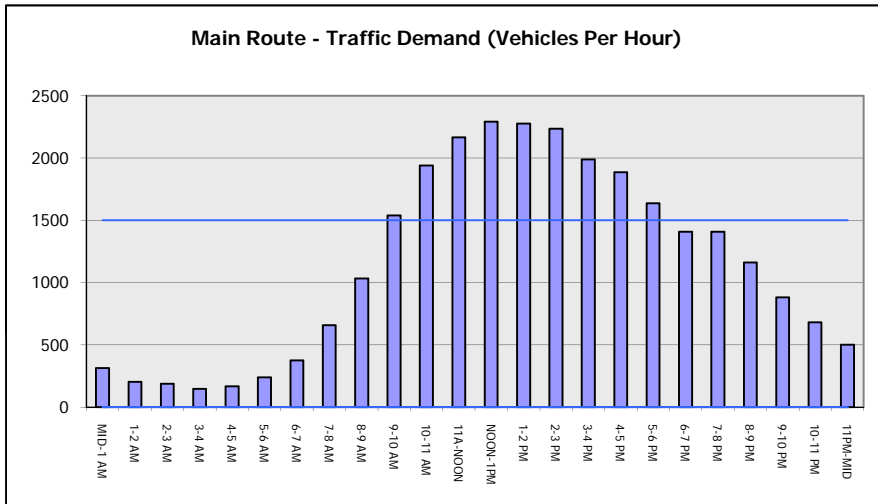
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$87,924
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

IH 39/90: STH 73 TO USH 14 (ROCK AND DANE COUNTIES)
OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: USH 14 - USH 51

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



IH 39/90: STH 73 TO USH 14 (ROCK AND DANE COUNTIES) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: USH 14 - USH 51	AUGUST
	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	379	0.0	46	0.0	OFF	379	0	46	0.00	0	65.7	65.7	65.7	39.2	39.2
1-2 AM	303	0.0	37	0.0	OFF	303	0	37	0.00	0	65.8	65.8	65.8	39.3	39.3
2-3 AM	261	0.0	32	0.0	OFF	261	0	32	0.00	0	65.9	65.9	65.9	39.4	39.4
3-4 AM	205	0.0	25	0.0	OFF	205	0	25	0.00	0	66.0	66.0	66.0	39.4	39.4
4-5 AM	183	0.0	23	0.0	OFF	183	0	23	0.00	0	66.1	66.1	66.1	39.4	39.4
5-6 AM	212	0.0	26	0.0	OFF	212	0	26	0.00	0	66.0	66.0	66.0	39.4	39.4
6-7 AM	385	0.0	46	0.0	OFF	385	0	46	0.00	0	65.6	65.6	65.6	39.2	39.2
7-8 AM	645	0.0	78	0.0	OFF	645	0	78	0.00	0	65.2	65.2	65.2	38.8	38.8
8-9 AM	1028	0.0	125	0.0	OFF	1028	0	125	0.00	0	64.5	64.5	64.5	38.2	38.2
9-10 AM	1605	0.0	195	0.0	1499	1605	0	195	2.07	33	63.4	53.6	31.4	37.3	37.3
10-11 AM	2312	0.0	280	0.0	1500	1925	387	667	14.59	392	62.1	27.4	30.8	36.3	31.5
11A-NOON	2813	0.0	341	0.0	1500	1753	1061	1401+	25.37	691	57.7	19.0	30.8	35.5	22.4
NOON-1PM	2967	0.0	359	0.0	1500	1590	1377	1736+	31.71	868	56.1	16.1	30.8	35.3	19.0
1-2 PM	3089	0.0	374	0.0	1500	1500	1589	1963+	32.26	891	54.8	15.8	30.8	35.1	18.6
2-3 PM	3141	0.0	380	0.0	1500	1500	1641	2021+	32.14	891	54.3	15.8	30.8	35.0	18.6
3-4 PM	3233	0.0	391	0.0	1500	1500	1733	2125+	31.90	891	53.4	15.8	30.8	34.9	18.6
4-5 PM	2980	0.0	360	0.0	1500	1499	1481	1842+	32.51	891	56.0	15.8	30.8	35.3	18.6
5-6 PM	2972	0.0	359	0.0	1500	1499	1473	1832+	32.54	891	56.1	15.8	30.8	35.3	18.6
6-7 PM	2793	0.0	338	0.0	1500	1437	1356	1693+	32.35	875	57.9	16.1	30.8	35.5	18.9
7-8 PM	2441	0.0	295	0.0	OFF	2441	0	295	5.23	222	61.5	42.5	42.5	36.1	36.1
8-9 PM	2012	0.0	244	0.0	OFF	2012	0	244	0.00	0	62.7	62.7	62.7	36.7	36.7
9-10 PM	1425	0.0	172	0.0	OFF	1425	0	172	0.00	0	63.7	63.7	63.7	37.6	37.6
10-11 PM	866	0.0	105	0.0	OFF	866	0	105	0.00	0	64.8	64.8	64.8	38.4	38.4
11PM-MID	601	0.0	73	0.0	OFF	601	0	73	0.00	0	65.3	65.3	65.3	38.8	38.8

"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	0.0742
MAIN ROUTE WITH WORKS	0.0500
DIVERSION	0.2783

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$240,643
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

IH 39/90: STH 73 TO USH 14 (ROCK AND DANE COUNTIES)
OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: USH 14 - USH 51

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

