

IH 39/90: STH 73 TO USH 14 (ROCK AND DANE COUNTIES) CONTINUOUS (24 HOUR) 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	1500	313	0	38	0.45	0	65.8	63.2	44.2	39.2	39.2
1-2 AM	203	0.0	25	0.0	1500	203	0	25	0.44	0	66.0	63.4	44.6	39.4	39.4
2-3 AM	188	0.0	23	0.0	1500	188	0	23	0.44	0	66.0	63.5	44.7	39.4	39.4
3-4 AM	146	0.0	17	0.0	1500	146	0	17	0.44	0	66.1	63.6	44.9	39.6	39.6
4-5 AM	168	0.0	21	0.0	1500	168	0	21	0.44	0	66.1	63.5	44.8	39.5	39.5
5-6 AM	238	0.0	29	0.0	1500	238	0	29	0.45	0	66.0	63.3	44.5	39.4	39.4
6-7 AM	375	0.0	45	0.0	1500	375	0	45	0.46	0	65.7	63.0	44.0	39.2	39.2
7-8 AM	658	0.0	79	0.0	1500	658	0	79	0.49	0	65.1	62.4	42.9	38.8	38.8
8-9 AM	1033	0.0	125	0.0	1499	1033	0	125	0.54	0	64.5	61.5	41.2	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	1500	1407	0	170	6.75	155	63.8	39.9	30.8	37.6	37.6
8-9 PM	1161	0.0	141	0.0	1500	1161	0	141	1.25	18	64.2	57.8	38.6	38.0	38.0
9-10 PM	881	0.0	107	0.0	1500	881	0	107	0.51	0	64.8	61.9	42.1	38.4	38.4
10-11 PM	680	0.0	82	0.0	1500	680	0	82	0.49	0	65.1	62.3	42.8	38.8	38.8
11PM-MID	502	0.0	61	0.0	1500	502	0	61	0.47	0	65.5	62.8	43.5	39.0	39.0

----- 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	0.0426
DIVERSION	0.1245

PIA: Personal Injury Accidents

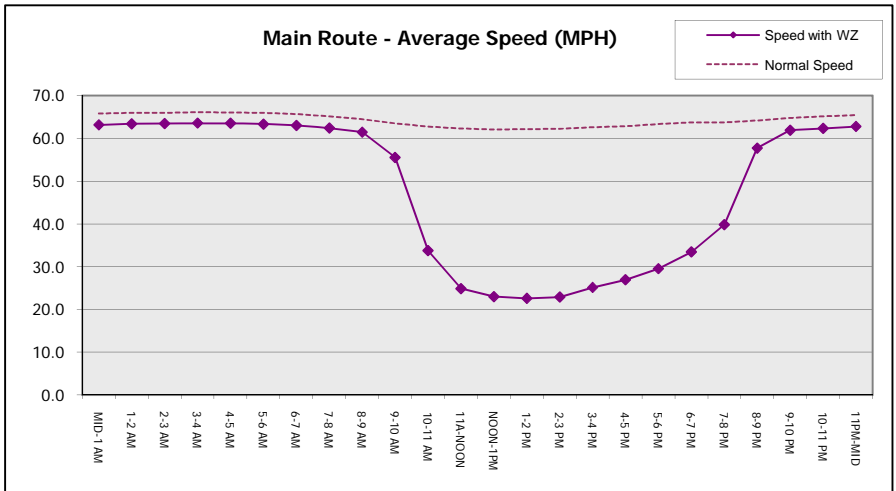
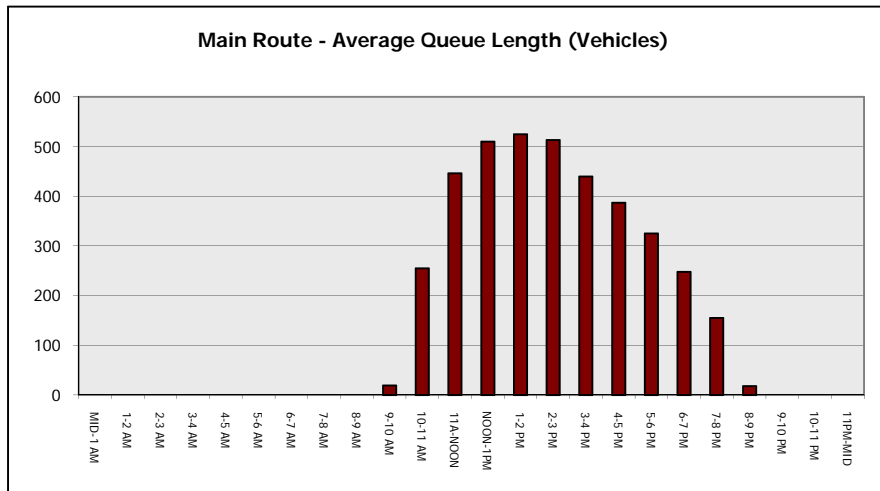
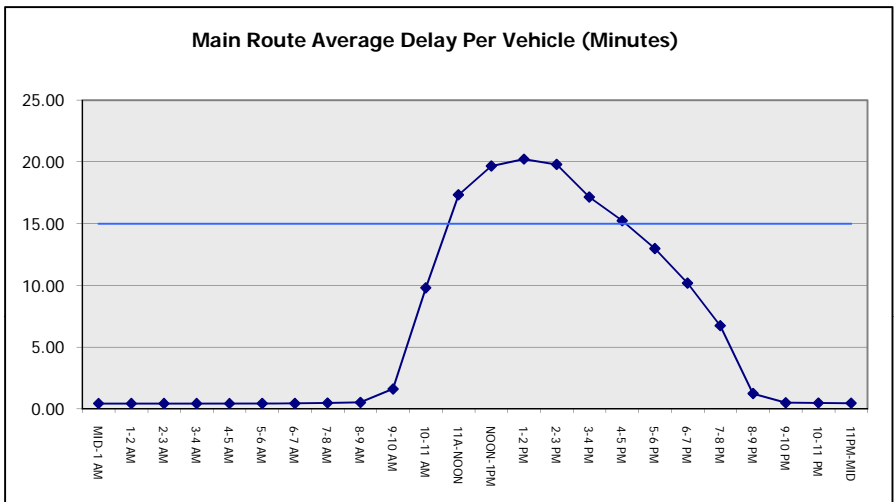
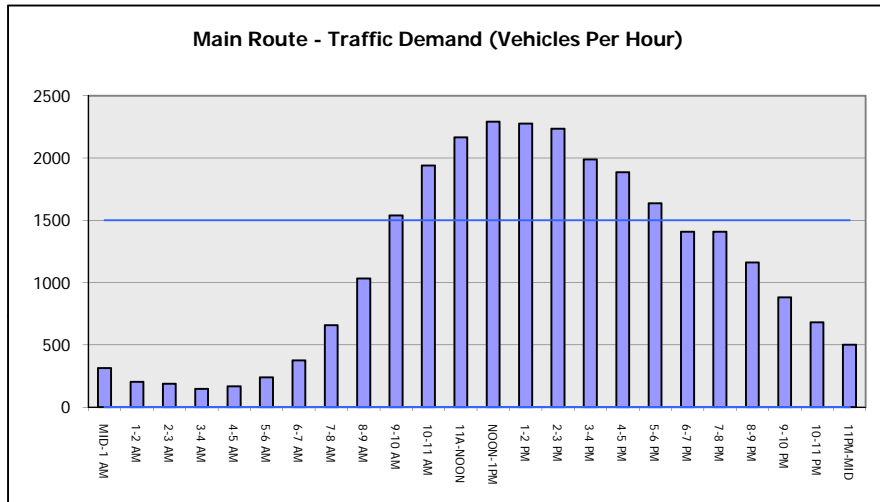
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$94,308
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

**IH 39/90: STH 73 TO USH 14 (ROCK AND DANE COUNTIES)
 CONTINUOUS (24 HOUR) 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) CONTINUOUS (24 HOUR) 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	1500	379	0	46	0.46	0	65.7	63.0	44.0	39.2	39.2
1-2 AM	303	0.0	37	0.0	1500	303	0	37	0.45	0	65.8	63.2	44.3	39.3	39.3
2-3 AM	261	0.0	32	0.0	1500	261	0	32	0.45	0	65.9	63.3	44.5	39.4	39.4
3-4 AM	205	0.0	25	0.0	1500	205	0	25	0.44	0	66.0	63.4	44.6	39.4	39.4
4-5 AM	183	0.0	23	0.0	1500	183	0	23	0.44	0	66.1	63.5	44.8	39.4	39.4
5-6 AM	212	0.0	26	0.0	1500	212	0	26	0.44	0	66.0	63.4	44.6	39.4	39.4
6-7 AM	385	0.0	46	0.0	1500	385	0	46	0.46	0	65.6	63.0	44.0	39.2	39.2
7-8 AM	645	0.0	78	0.0	1500	645	0	78	0.48	0	65.2	62.4	43.0	38.8	38.8
8-9 AM	1028	0.0	125	0.0	1499	1028	0	125	0.54	0	64.5	61.5	41.1	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	1500	1277	1164	1459+	27.41	725	61.5	18.4	30.8	36.1	21.6
8-9 PM	2012	0.0	244	0.0	1500	1287	725	969	19.03	495	62.7	23.6	30.8	36.7	27.7
9-10 PM	1425	0.0	172	0.0	1500	1289	136	308	11.57	289	63.7	31.5	30.8	37.6	35.9
10-11 PM	866	0.0	105	0.0	1500	866	0	105	1.48	32	64.8	57.1	41.9	38.4	38.4
11PM-MID	601	0.0	73	0.0	1500	601	0	73	0.48	0	65.3	62.5	43.1	38.8	38.8

+ 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	0.0742
MAIN ROUTE WITH WORKS	0.0456
DIVERSION	0.3118

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$281,397
CONGESTED HOURS PER DAY*	10

*Delays Exceeding 15 Minutes

**IH 39/90: STH 73 TO USH 14 (ROCK AND DANE COUNTIES)
 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: USH 14 - USH 51**

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

