

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

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	527	0.0	64	0.0	1500	527	0	64	0.47	0	65.4	62.7	43.4	38.9	38.9
1-2 AM	436	0.0	52	0.0	1500	436	0	52	0.46	0	65.6	62.9	43.8	39.1	39.1
2-3 AM	376	0.0	45	0.0	1500	376	0	45	0.46	0	65.7	63.0	44.0	39.2	39.2
3-4 AM	369	0.0	44	0.0	1500	369	0	44	0.46	0	65.7	63.0	44.0	39.2	39.2
4-5 AM	472	0.0	58	0.0	1500	472	0	58	0.47	0	65.5	62.8	43.6	39.0	39.0
5-6 AM	898	0.0	109	0.0	1500	898	0	109	0.51	0	64.7	61.9	42.0	38.4	38.4
6-7 AM	1360	0.0	165	0.0	1499	1360	0	165	0.84	0	63.8	59.4	34.1	37.7	37.7
7-8 AM	1642	0.0	199	0.0	1499	1642	0	199	3.14	61	63.3	49.6	30.8	37.3	37.3
8-9 AM	1675	0.0	203	0.0	1499	1673	1	204	9.10	222	63.3	35.1	30.8	37.2	37.2
9-10 AM	1842	0.0	222	0.0	1499	1561	281	503	13.81	348	63.0	28.5	30.8	37.0	33.5
10-11 AM	2140	0.0	259	0.0	1500	1599	541	800	16.83	432	62.4	25.3	30.8	36.5	29.8
11A-NOON	2316	0.0	280	0.0	1499	1568	749	1029	19.76	513	62.1	23.0	30.8	36.3	27.0
NOON-1PM	2409	0.0	291	0.0	1499	1542	867	1158	21.70	566	61.9	21.6	30.8	36.1	25.3
1-2 PM	2446	0.0	295	0.0	1499	1524	922	1217+	22.62	593	61.4	20.9	30.8	36.1	24.7
2-3 PM	2627	0.0	318	0.0	1500	1600	1027	1345+	24.63	657	59.6	19.6	30.8	35.8	23.0
3-4 PM	2856	0.0	346	0.0	1500	1641	1214	1560+	28.94	787	57.3	17.3	30.8	35.5	20.4
4-5 PM	2768	0.0	334	0.0	1499	1470	1298	1633+	31.06	838	58.1	16.6	30.8	35.6	19.4
5-6 PM	2668	0.0	323	0.0	1499	1429	1239	1562+	29.40	788	59.2	17.3	30.8	35.7	20.4
6-7 PM	2459	0.0	297	0.0	1498	1364	1093	1391+	25.93	683	61.3	19.1	30.7	36.1	22.4
7-8 PM	2140	0.0	259	0.0	1499	1346	794	1053	20.18	525	62.4	22.7	30.8	36.5	26.6
8-9 PM	1996	0.0	242	0.0	1500	1443	552	794	16.82	431	62.7	25.4	30.8	36.8	29.9
9-10 PM	1764	0.0	213	0.0	1500	1419	345	558	14.36	363	63.1	27.9	30.8	37.1	32.8
10-11 PM	1274	0.0	154	0.0	1499	1248	26	181	8.73	219	64.0	36.0	32.5	37.8	37.5
11PM-MID	719	0.0	86	0.0	1500	718	0	87	0.61	3	65.0	61.6	42.7	38.7	38.7

+ 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	0.0767
MAIN ROUTE WITH WORKS	0.0539
DIVERSION	0.2619

PIA: Personal Injury Accidents

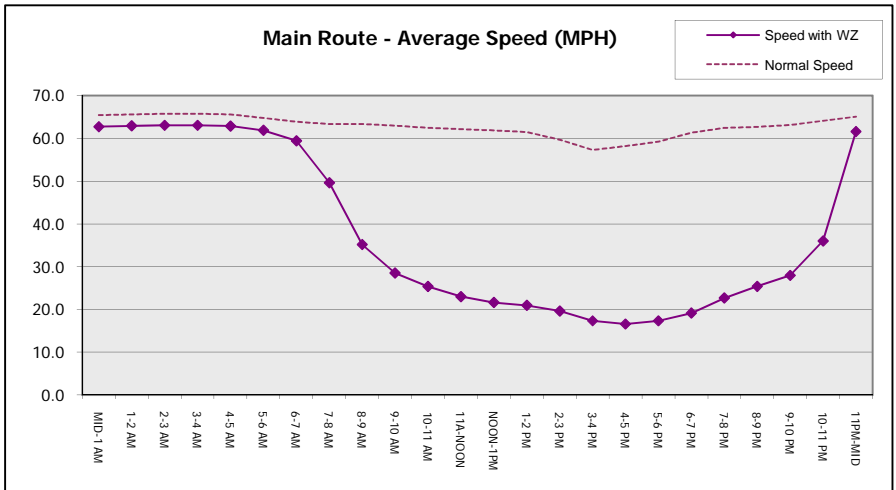
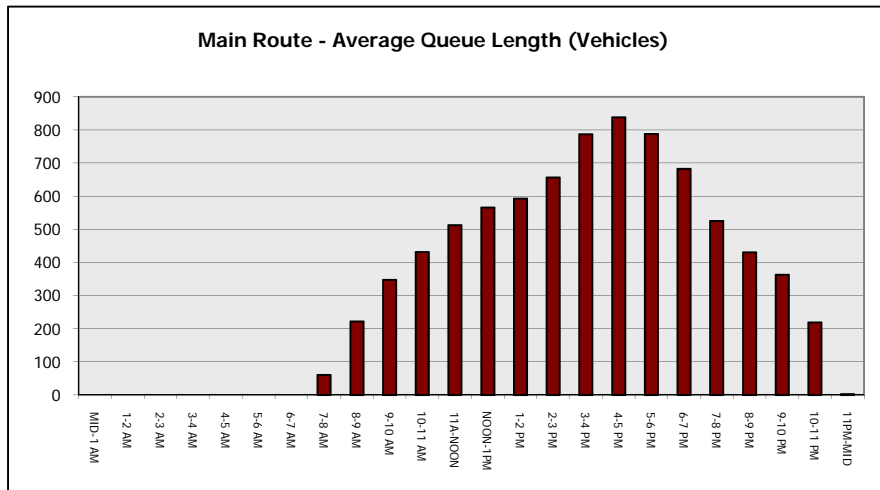
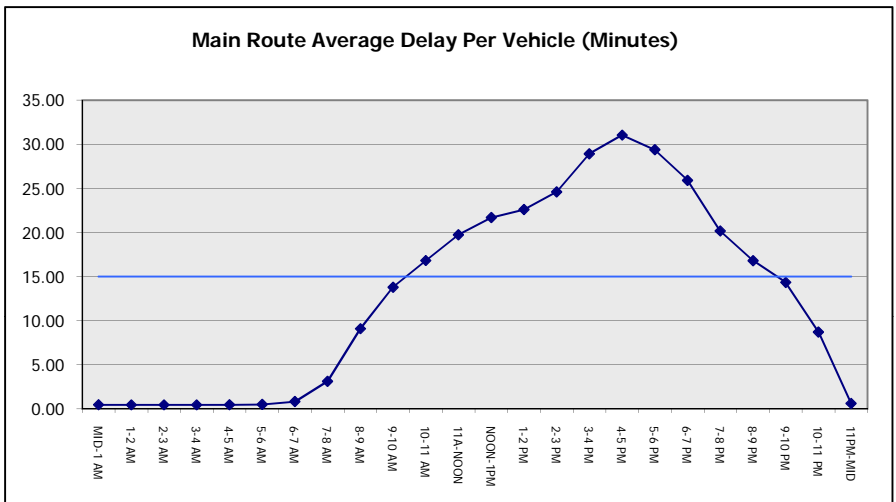
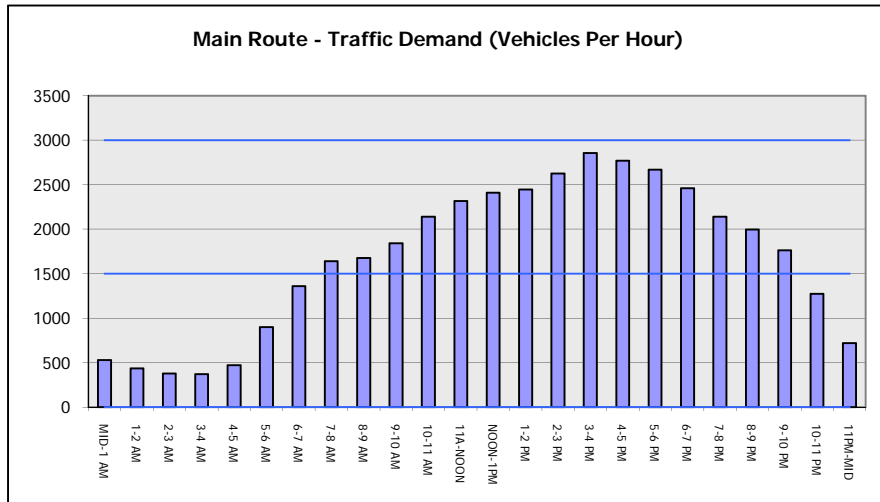
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$181,113
CONGESTED HOURS PER DAY*	11

*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
FRIDAY 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	
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		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	461	0.0	56	0.0	1500	461	0	56	0.47	0	65.5	62.8	43.7	39.1	39.1
1-2 AM	375	0.0	45	0.0	1500	375	0	45	0.46	0	65.7	63.0	44.0	39.2	39.2
2-3 AM	377	0.0	45	0.0	1500	377	0	45	0.46	0	65.7	63.0	44.0	39.2	39.2
3-4 AM	426	0.0	51	0.0	1500	426	0	51	0.46	0	65.6	62.9	43.8	39.1	39.1
4-5 AM	450	0.0	55	0.0	1500	450	0	55	0.47	0	65.6	62.9	43.7	39.1	39.1
5-6 AM	552	0.0	67	0.0	1500	552	0	67	0.48	0	65.3	62.7	43.3	38.9	38.9
6-7 AM	760	0.0	92	0.0	1500	760	0	92	0.50	0	65.0	62.2	42.5	38.6	38.6
7-8 AM	1152	0.0	139	0.0	1500	1152	0	139	0.57	0	64.2	61.1	40.1	38.0	38.0
8-9 AM	1311	0.0	159	0.0	1499	1311	0	159	0.78	0	64.0	59.8	35.2	37.8	37.8
9-10 AM	1540	0.0	186	0.0	1499	1540	0	186	1.42	11	63.5	56.4	30.9	37.4	37.4
10-11 AM	1731	0.0	210	0.0	1500	1731	0	210	6.25	150	63.2	40.8	30.8	37.1	37.1
11A-NOON	1919	0.0	233	0.0	1499	1617	302	535	14.09	357	62.8	28.2	30.8	36.8	33.1
NOON-1PM	2031	0.0	246	0.0	1499	1538	493	739	16.16	413	62.6	26.0	30.8	36.7	30.6
1-2 PM	2215	0.0	268	0.0	1500	1568	647	915	18.23	470	62.3	24.2	30.8	36.4	28.4
2-3 PM	2327	0.0	282	0.0	1499	1546	781	1063	20.26	526	62.0	22.6	30.8	36.3	26.5
3-4 PM	2387	0.0	289	0.0	1499	1528	859	1148	21.56	562	61.9	21.7	30.8	36.1	25.5
4-5 PM	2433	0.0	294	0.0	1500	1519	914	1209+	22.50	589	61.5	21.1	30.8	36.1	24.7
5-6 PM	2337	0.0	283	0.0	1499	1443	893	1176	22.04	575	62.0	21.4	30.8	36.2	25.2
6-7 PM	1887	0.0	228	0.0	1499	1326	561	789	16.79	432	62.8	25.5	30.8	36.9	29.9
7-8 PM	1683	0.0	204	0.0	1500	1442	241	445	13.33	334	63.3	29.1	30.8	37.2	34.2
8-9 PM	1344	0.0	163	0.0	1499	1329	15	178	9.47	231	63.9	34.7	30.9	37.7	37.5
9-10 PM	1148	0.0	139	0.0	1500	1148	0	139	1.59	29	64.3	56.3	38.5	38.0	38.0
10-11 PM	967	0.0	117	0.0	1500	967	0	117	0.52	0	64.6	61.7	41.8	38.3	38.3
11PM-MID	691	0.0	83	0.0	1500	691	0	83	0.49	0	65.1	62.3	42.8	38.7	38.7

+ 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	0.0621
MAIN ROUTE WITH WORKS	0.0494
DIVERSION	0.1597

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$97,383
CONGESTED HOURS PER DAY*	7

*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
FRIDAY EASTBOUND DIRECTION

