

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

**MAY**  
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	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	268	0.0	32	0.0	1500	268	0	32	0.45	0	65.9	63.3	44.4	39.4	39.4
2-3 AM	285	0.0	34	0.0	1500	285	0	34	0.45	0	65.8	63.2	44.3	39.3	39.3
3-4 AM	292	0.0	35	0.0	1500	292	0	35	0.45	0	65.8	63.2	44.3	39.3	39.3
4-5 AM	447	0.0	54	0.0	1500	447	0	54	0.47	0	65.6	62.9	43.7	39.1	39.1
5-6 AM	924	0.0	111	0.0	1500	924	0	111	0.51	0	64.6	61.8	41.9	38.4	38.4
6-7 AM	1264	0.0	152	0.0	1500	1264	0	152	0.72	0	64.0	60.2	36.5	37.9	37.9
7-8 AM	1236	0.0	149	0.0	1500	1236	0	149	0.68	0	64.1	60.4	37.3	37.9	37.9
8-9 AM	1141	0.0	138	0.0	1500	1141	0	138	0.56	0	64.3	61.2	40.4	38.0	38.0
9-10 AM	1159	0.0	140	0.0	1500	1159	0	140	0.58	0	64.2	61.0	39.8	38.0	38.0
10-11 AM	1270	0.0	153	0.0	1500	1270	0	153	0.73	0	64.0	60.1	36.3	37.8	37.8
11A-NOON	1299	0.0	158	0.0	1500	1299	0	158	0.76	0	64.0	59.9	35.5	37.8	37.8
NOON-1PM	1295	0.0	157	0.0	1500	1295	0	157	0.76	0	64.0	59.9	35.6	37.8	37.8
1-2 PM	1353	0.0	164	0.0	1500	1353	0	164	0.83	0	63.8	59.5	34.2	37.7	37.7
2-3 PM	1366	0.0	166	0.0	1500	1366	0	166	0.85	0	63.8	59.4	33.8	37.7	37.7
3-4 PM	1400	0.0	170	0.0	1500	1400	0	170	0.90	0	63.8	59.1	33.0	37.6	37.6
4-5 PM	1326	0.0	161	0.0	1500	1326	0	161	0.80	0	63.9	59.7	34.8	37.8	37.8
5-6 PM	1167	0.0	141	0.0	1500	1167	0	141	0.59	0	64.2	61.0	39.5	38.0	38.0
6-7 PM	965	0.0	116	0.0	1500	965	0	116	0.52	0	64.6	61.7	41.8	38.3	38.3
7-8 PM	903	0.0	109	0.0	1500	903	0	109	0.51	0	64.7	61.9	42.0	38.4	38.4
8-9 PM	845	0.0	102	0.0	1500	845	0	102	0.50	0	64.8	62.0	42.2	38.5	38.5
9-10 PM	698	0.0	84	0.0	1500	698	0	84	0.49	0	65.1	62.3	42.8	38.7	38.7
10-11 PM	549	0.0	66	0.0	1500	549	0	66	0.48	0	65.4	62.7	43.3	38.9	38.9
11PM-MID	356	0.0	43	0.0	1500	356	0	43	0.46	0	65.7	63.1	44.1	39.2	39.2

*----- 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	0.0422
MAIN ROUTE WITH WORKS	0.0408
DIVERSION	0.0443

PIA: Personal Injury Accidents

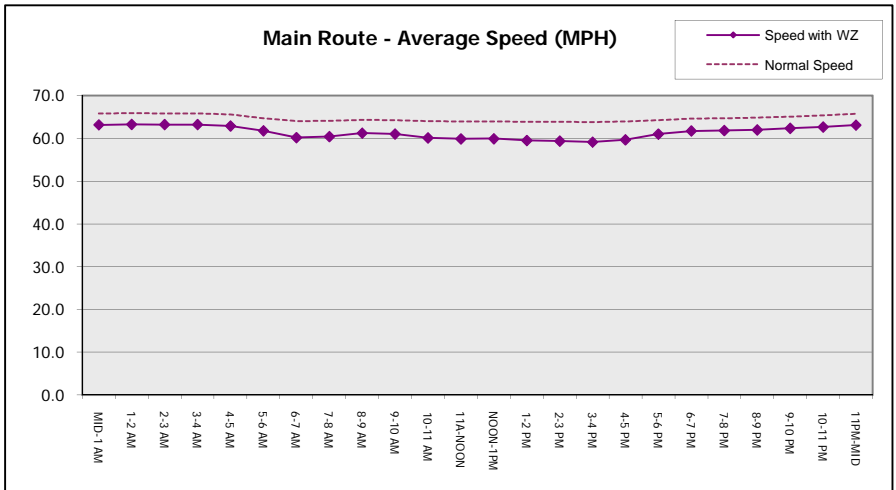
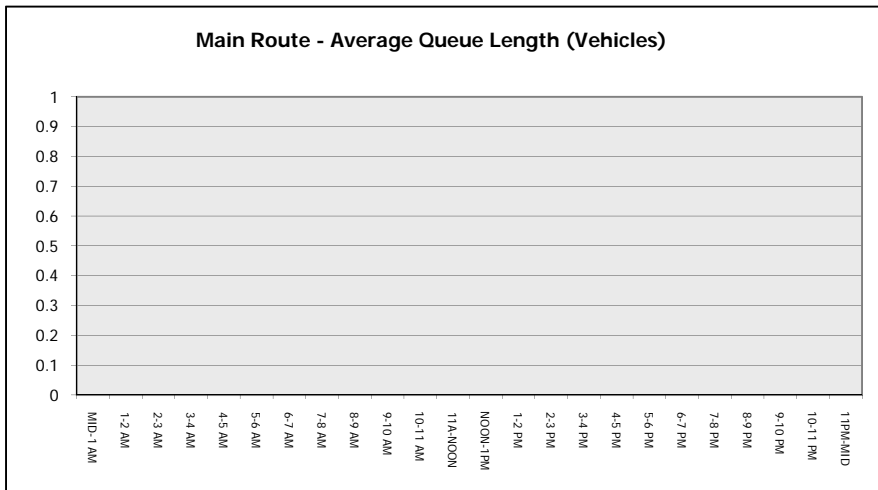
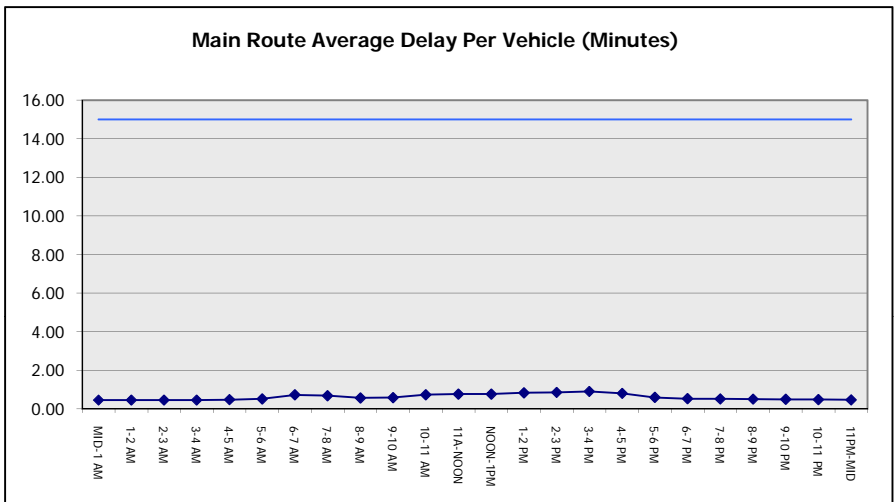
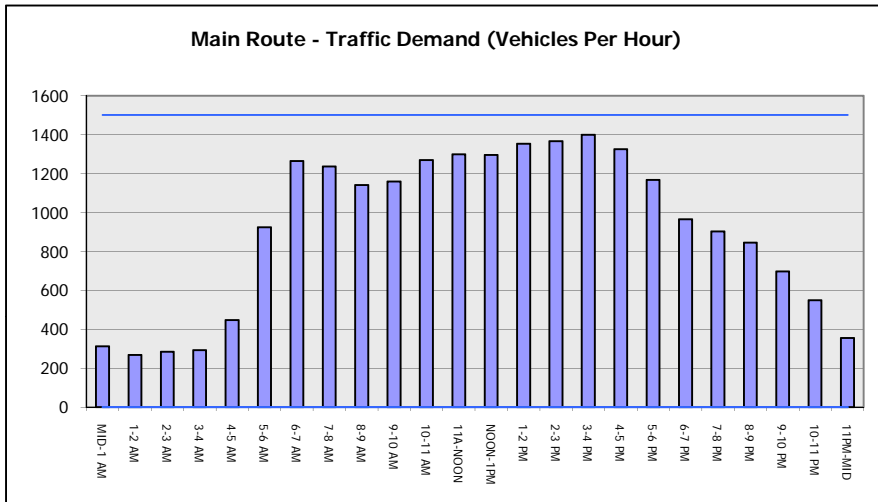
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$3,078
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: USH 14 - USH 51**

**MAY**  
 Analyzed for 2009  
 Construction Season

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



<b>IH 39/90: STH 73 TO USH 14 (ROCK AND DANE COUNTIES)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: USH 14 - USH 51</b>	<b>MAY</b>
	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	301	0.0	36	0.0	1500	301	0	36	0.45	0	65.8	63.2	44.3	39.3	39.3
1-2 AM	257	0.0	31	0.0	1500	257	0	31	0.45	0	65.9	63.3	44.5	39.4	39.4
2-3 AM	278	0.0	34	0.0	1500	278	0	34	0.45	0	65.9	63.3	44.4	39.3	39.3
3-4 AM	323	0.0	38	0.0	1500	323	0	38	0.45	0	65.8	63.2	44.2	39.2	39.2
4-5 AM	411	0.0	49	0.0	1500	411	0	49	0.46	0	65.6	63.0	43.8	39.1	39.1
5-6 AM	562	0.0	68	0.0	1500	562	0	68	0.48	0	65.3	62.6	43.3	38.9	38.9
6-7 AM	829	0.0	100	0.0	1500	829	0	100	0.50	0	64.8	62.0	42.3	38.5	38.5
7-8 AM	1051	0.0	127	0.0	1500	1051	0	127	0.52	0	64.4	61.5	41.5	38.2	38.2
8-9 AM	1119	0.0	136	0.0	1500	1119	0	136	0.53	0	64.3	61.4	41.2	38.1	38.1
9-10 AM	1186	0.0	143	0.0	1500	1186	0	143	0.62	0	64.1	60.8	38.9	37.9	37.9
10-11 AM	1287	0.0	156	0.0	1500	1287	0	156	0.75	0	64.0	60.0	35.9	37.8	37.8
11A-NOON	1368	0.0	165	0.0	1500	1368	0	165	0.85	0	63.8	59.4	33.7	37.7	37.7
NOON-1PM	1422	0.0	171	0.0	1500	1422	0	171	0.92	0	63.7	58.9	32.5	37.6	37.6
1-2 PM	1462	0.0	176	0.0	1499	1462	0	176	0.97	0	63.7	58.6	31.6	37.6	37.6
2-3 PM	1538	0.0	185	0.0	1499	1538	0	185	1.53	14	63.5	56.0	30.8	37.4	37.4
3-4 PM	1616	0.0	196	0.0	1500	1616	0	196	4.37	92	63.4	45.8	30.8	37.3	37.3
4-5 PM	1638	0.0	198	0.0	1500	1638	0	198	9.24	224	63.3	34.9	30.8	37.3	37.3
5-6 PM	1550	0.0	187	0.0	1499	1486	64	252	11.76	290	63.5	31.2	30.8	37.4	36.6
6-7 PM	1270	0.0	153	0.0	1499	1270	0	153	7.28	178	64.0	38.9	32.2	37.8	37.8
7-8 PM	1031	0.0	125	0.0	1500	1031	0	125	0.62	2	64.5	61.1	41.5	38.2	38.2
8-9 PM	904	0.0	109	0.0	1500	904	0	109	0.51	0	64.7	61.9	42.0	38.4	38.4
9-10 PM	771	0.0	93	0.0	1500	771	0	93	0.50	0	65.0	62.2	42.5	38.6	38.6
10-11 PM	575	0.0	70	0.0	1500	575	0	70	0.48	0	65.3	62.6	43.2	38.9	38.9
11PM-MID	380	0.0	45	0.0	1500	380	0	45	0.46	0	65.7	63.0	44.0	39.2	39.2

*----- 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	0.0442
MAIN ROUTE WITH WORKS	0.0425
DIVERSION	0.0473

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$13,078
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: USH 14 - USH 51**

**MAY**  
 Analyzed for 2009  
 Construction Season

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

