

**IH 39/90: USH 14 TO STATE LINE (ROCK COUNTY)  
NIGHTTIME CLOSURE  
DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - USH 11**

**MAY**  
Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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	453	0.0	66	0.0	1500	453	0	66	0.47	0	65.5	62.3	43.7	38.9	38.9
1-2 AM	337	0.0	49	0.0	1500	337	0	49	0.46	0	65.8	62.7	44.2	39.1	39.1
2-3 AM	314	0.0	45	0.0	1500	314	0	45	0.45	0	65.8	62.7	44.2	39.2	39.2
3-4 AM	275	0.0	40	0.0	1500	275	0	40	0.45	0	65.9	62.8	44.4	39.2	39.2
4-5 AM	358	0.0	52	0.0	1500	358	0	52	0.46	0	65.7	62.6	44.0	39.1	39.1
5-6 AM	589	0.0	85	0.0	1500	589	0	85	0.48	0	65.3	62.0	43.2	38.7	38.7
6-7 AM	921	0.0	134	0.0	1500	921	0	134	0.51	0	64.6	61.3	42.0	38.1	38.1
7-8 AM	1212	0.0	176	0.0	1499	1212	0	176	0.65	0	64.1	59.9	38.3	37.6	37.6
8-9 AM	1521	0.0	221	0.0	OFF	1521	0	221	0.00	0	63.5	63.5	63.5	37.0	37.0
9-10 AM	1754	0.0	254	0.0	OFF	1754	0	254	0.00	0	63.1	63.1	63.1	36.6	36.6
10-11 AM	1902	0.0	276	0.0	OFF	1902	0	276	0.00	0	62.8	62.8	62.8	36.3	36.3
11A-NOON	1846	0.0	268	0.0	OFF	1846	0	268	0.00	0	63.0	63.0	63.0	36.4	36.4
NOON-1PM	1673	0.0	243	0.0	OFF	1673	0	243	0.00	0	63.3	63.3	63.3	36.7	36.7
1-2 PM	1650	0.0	240	0.0	OFF	1650	0	240	0.00	0	63.3	63.3	63.3	36.8	36.8
2-3 PM	1530	0.0	222	0.0	OFF	1530	0	222	0.00	0	63.5	63.5	63.5	37.0	37.0
3-4 PM	1404	0.0	204	0.0	OFF	1404	0	204	0.00	0	63.8	63.8	63.8	37.2	37.2
4-5 PM	1400	0.0	204	0.0	OFF	1400	0	204	0.00	0	63.8	63.8	63.8	37.2	37.2
5-6 PM	1237	0.0	180	0.0	OFF	1237	0	180	0.00	0	64.1	64.1	64.1	37.5	37.5
6-7 PM	1076	0.0	156	0.0	1500	1076	0	156	0.53	0	64.4	60.9	41.4	37.8	37.8
7-8 PM	902	0.0	131	0.0	1500	902	0	131	0.51	0	64.7	61.4	42.0	38.1	38.1
8-9 PM	793	0.0	115	0.0	1500	793	0	115	0.50	0	64.9	61.6	42.4	38.3	38.3
9-10 PM	667	0.0	97	0.0	1500	667	0	97	0.49	0	65.1	61.9	42.8	38.6	38.6
10-11 PM	471	0.0	68	0.0	1500	471	0	68	0.47	0	65.5	62.3	43.6	38.9	38.9
11PM-MID	364	0.0	52	0.0	1500	364	0	52	0.46	0	65.7	62.6	44.0	39.1	39.1

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

*----- 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	0.0392
MAIN ROUTE WITH WORKS	0.0386
DIVERSION	0.0799

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$1,030
CONGESTED HOURS PER DAY*	0

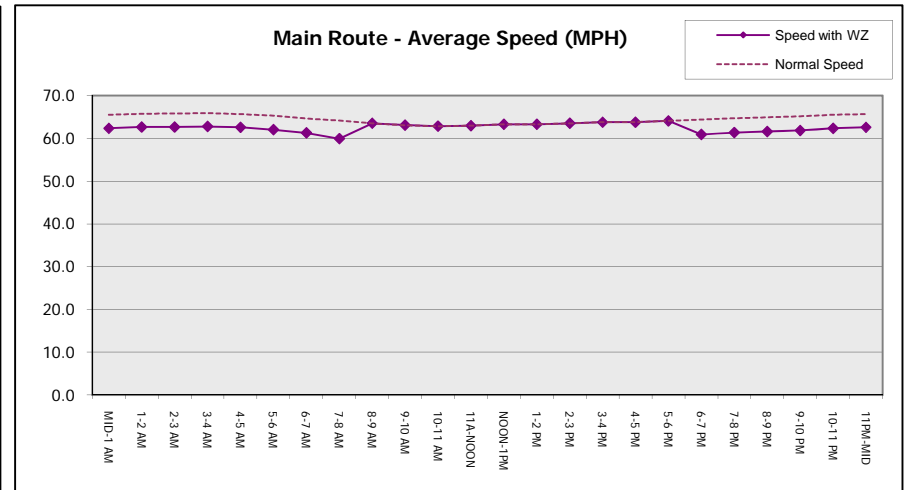
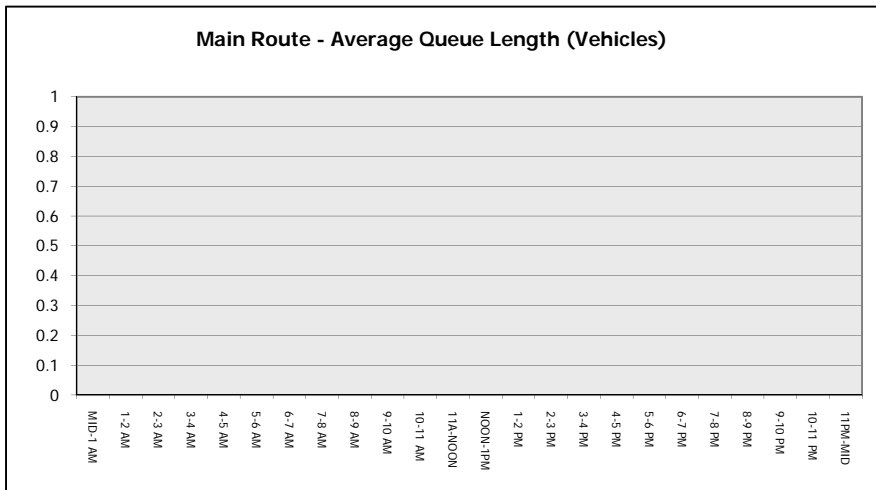
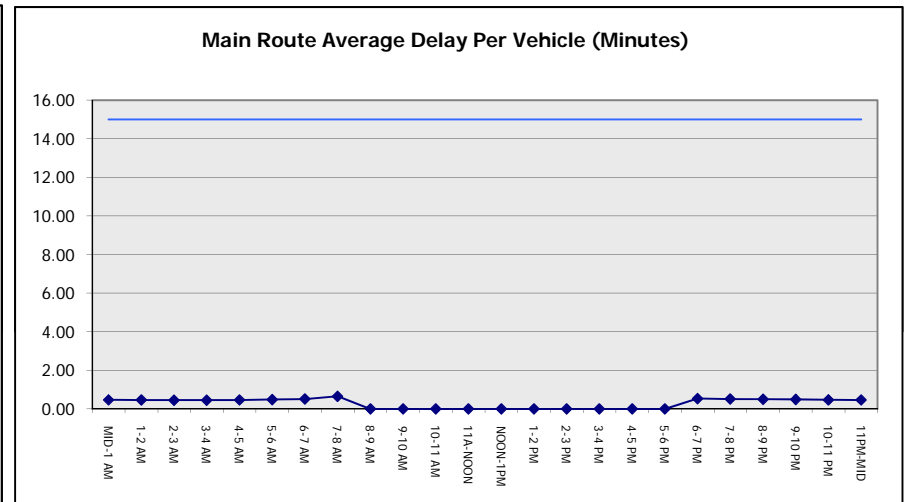
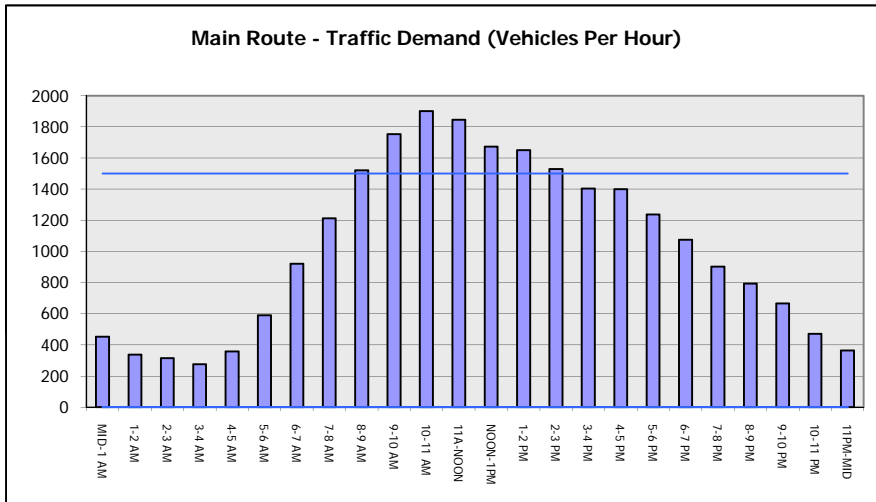
\*Delays Exceeding 15 Minutes

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 DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - USH 11**

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 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SATURDAY WESTBOUND DIRECTION**



<b>IH 39/90: USH 14 TO STATE LINE (ROCK COUNTY)</b> <b>NIGHTTIME CLOSURE</b> <b>DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - USH 11</b>	<b>MAY</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SATURDAY 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	387	0.0	57	0.0	1500	387	0	57	0.46	0	65.6	62.5	44.0	39.1	39.1
1-2 AM	282	0.0	41	0.0	1500	282	0	41	0.45	0	65.9	62.8	44.3	39.2	39.2
2-3 AM	272	0.0	39	0.0	1500	272	0	39	0.45	0	65.9	62.8	44.4	39.2	39.2
3-4 AM	287	0.0	42	0.0	1500	287	0	42	0.45	0	65.8	62.7	44.3	39.2	39.2
4-5 AM	291	0.0	42	0.0	1500	291	0	42	0.45	0	65.8	62.7	44.3	39.2	39.2
5-6 AM	330	0.0	48	0.0	1500	330	0	48	0.45	0	65.8	62.7	44.2	39.1	39.1
6-7 AM	506	0.0	73	0.0	1500	506	0	73	0.47	0	65.5	62.2	43.5	38.8	38.8
7-8 AM	792	0.0	115	0.0	1500	792	0	115	0.50	0	64.9	61.6	42.4	38.3	38.3
8-9 AM	1081	0.0	156	0.0	OFF	1081	0	156	0.00	0	64.4	64.4	64.4	37.8	37.8
9-10 AM	1307	0.0	189	0.0	OFF	1307	0	189	0.00	0	64.0	64.0	64.0	37.4	37.4
10-11 AM	1422	0.0	207	0.0	OFF	1422	0	207	0.00	0	63.7	63.7	63.7	37.2	37.2
11A-NOON	1497	0.0	217	0.0	OFF	1497	0	217	0.00	0	63.6	63.6	63.6	37.1	37.1
NOON-1PM	1464	0.0	213	0.0	OFF	1464	0	213	0.00	0	63.7	63.7	63.7	37.1	37.1
1-2 PM	1467	0.0	213	0.0	OFF	1467	0	213	0.00	0	63.7	63.7	63.7	37.1	37.1
2-3 PM	1435	0.0	208	0.0	OFF	1435	0	208	0.00	0	63.7	63.7	63.7	37.1	37.1
3-4 PM	1392	0.0	202	0.0	OFF	1392	0	202	0.00	0	63.8	63.8	63.8	37.3	37.3
4-5 PM	1384	0.0	201	0.0	OFF	1384	0	201	0.00	0	63.8	63.8	63.8	37.3	37.3
5-6 PM	1214	0.0	176	0.0	OFF	1214	0	176	0.00	0	64.1	64.1	64.1	37.6	37.6
6-7 PM	1073	0.0	155	0.0	1500	1073	0	155	0.53	0	64.4	60.9	41.4	37.8	37.8
7-8 PM	944	0.0	137	0.0	1500	944	0	137	0.51	0	64.6	61.2	41.9	38.1	38.1
8-9 PM	853	0.0	124	0.0	1500	853	0	124	0.51	0	64.8	61.4	42.2	38.2	38.2
9-10 PM	743	0.0	108	0.0	1500	743	0	108	0.49	0	65.0	61.7	42.6	38.4	38.4
10-11 PM	600	0.0	87	0.0	1500	600	0	87	0.48	0	65.3	62.0	43.1	38.7	38.7
11PM-MID	439	0.0	64	0.0	1500	439	0	64	0.47	0	65.6	62.4	43.7	38.9	38.9

"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	0.0341
MAIN ROUTE WITH WORKS	0.0336
DIVERSION	0.0696

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$876
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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**SATURDAY EASTBOUND DIRECTION**

