

**IH 39/90: STH 11 TO STATE LINE (ROCK COUNTY)  
CONTINUOUS (24 HOUR) CLOSURE  
DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - STH 11**

**OCTOBER**

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	405	0.0	59	0.0	1500	405	0	59	0.46	0	65.6	62.5	43.9	39.0	39.0
1-2 AM	305	0.0	44	0.0	1500	305	0	44	0.45	0	65.8	62.7	44.3	39.2	39.2
2-3 AM	275	0.0	40	0.0	1500	275	0	40	0.45	0	65.9	62.8	44.4	39.2	39.2
3-4 AM	227	0.0	33	0.0	1500	227	0	33	0.44	0	66.0	62.9	44.6	39.3	39.3
4-5 AM	317	0.0	46	0.0	1500	317	0	46	0.45	0	65.8	62.7	44.2	39.2	39.2
5-6 AM	474	0.0	69	0.0	1500	474	0	69	0.47	0	65.5	62.3	43.6	38.9	38.9
6-7 AM	740	0.0	107	0.0	1500	740	0	107	0.49	0	65.0	61.7	42.6	38.4	38.4
7-8 AM	1197	0.0	174	0.0	1499	1197	0	174	0.66	0	64.1	59.9	38.1	37.6	37.6
8-9 AM	1802	0.0	262	0.0	1499	1802	0	262	5.11	126	63.0	41.0	30.8	36.5	36.5
9-10 AM	1985	0.0	288	0.0	1500	1892	93	381	19.70	523	62.7	20.5	30.8	36.1	35.0
10-11 AM	1935	0.0	281	0.0	1499	1514	421	702	27.18	708	62.8	16.3	30.8	36.3	31.1
11A-NOON	1850	0.0	269	0.0	1499	1464	386	655	26.52	690	63.0	16.6	30.8	36.4	31.6
NOON-1PM	1758	0.0	255	0.0	1500	1459	299	555	25.18	653	63.1	17.3	30.8	36.6	32.9
1-2 PM	1572	0.0	229	0.0	1499	1436	136	364	22.91	591	63.5	18.5	30.8	36.9	35.2
2-3 PM	1587	0.0	231	0.0	1500	1499	89	319	22.40	577	63.4	18.8	30.8	36.9	35.8
3-4 PM	1240	0.0	180	0.0	1499	1240	0	180	17.32	445	64.1	22.5	30.8	37.5	37.5
4-5 PM	1298	0.0	188	0.0	1500	1298	0	188	8.07	195	64.0	34.4	30.8	37.4	37.4
5-6 PM	1568	0.0	228	0.0	1500	1568	0	228	6.27	142	63.5	38.1	30.8	36.9	36.9
6-7 PM	1174	0.0	171	0.0	1499	1174	0	171	2.45	57	64.2	50.9	37.1	37.6	37.6
7-8 PM	969	0.0	141	0.0	1500	969	0	141	0.52	0	64.6	61.2	41.8	38.0	38.0
8-9 PM	819	0.0	119	0.0	1500	819	0	119	0.50	0	64.8	61.5	42.3	38.3	38.3
9-10 PM	700	0.0	102	0.0	1500	700	0	102	0.49	0	65.1	61.8	42.8	38.5	38.5
10-11 PM	502	0.0	73	0.0	1500	502	0	73	0.47	0	65.5	62.2	43.5	38.8	38.8
11PM-MID	363	0.0	53	0.0	1500	363	0	53	0.46	0	65.7	62.6	44.0	39.1	39.1

*----- 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	0.0399
MAIN ROUTE WITH WORKS	0.0361
DIVERSION	0.1131

PIA: Personal Injury Accidents

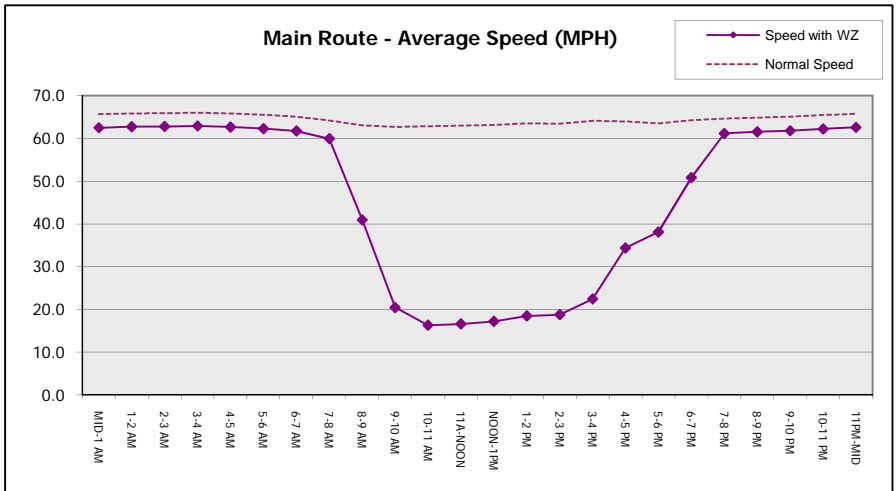
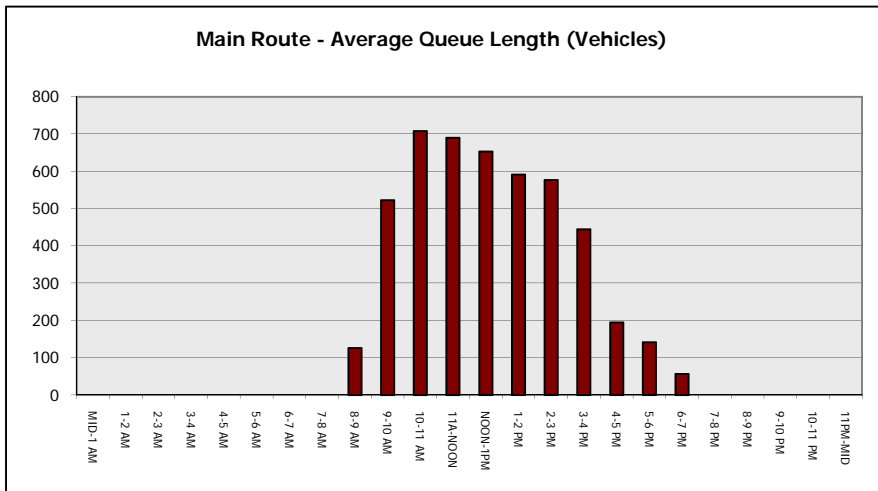
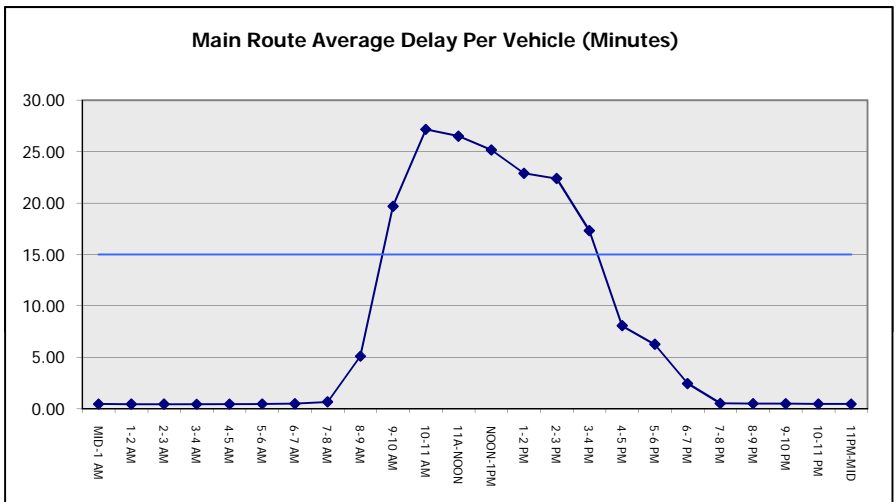
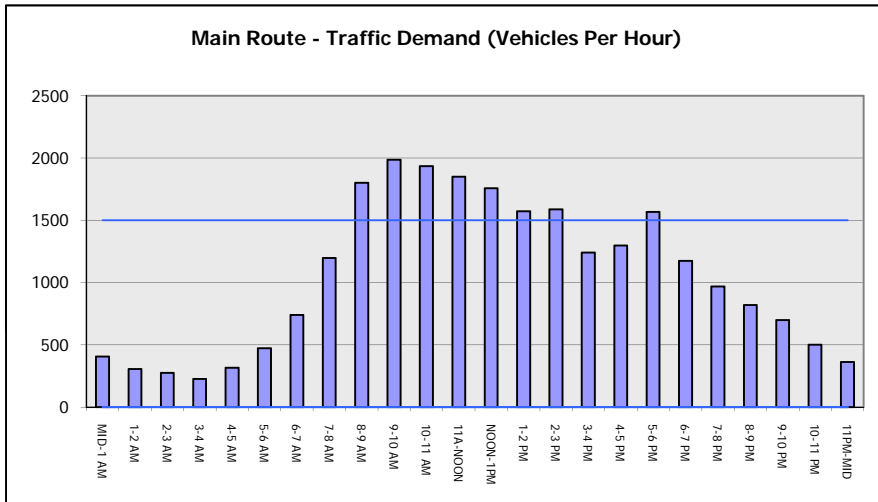
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$91,899
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) CLOSURE  
 DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - STH 11**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY WESTBOUND DIRECTION**



<b>IH 39/90: STH 11 TO STATE LINE (ROCK COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - STH 11</b>	<b>OCTOBER</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			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	374	0.0	55	0.0	1500	374	0	55	0.46	0	65.7	62.5	44.0	39.1	39.1
1-2 AM	289	0.0	42	0.0	1500	289	0	42	0.45	0	65.8	62.7	44.3	39.2	39.2
2-3 AM	251	0.0	36	0.0	1500	251	0	36	0.45	0	65.9	62.8	44.5	39.3	39.3
3-4 AM	258	0.0	38	0.0	1500	258	0	38	0.45	0	65.9	62.8	44.5	39.2	39.2
4-5 AM	302	0.0	44	0.0	1500	302	0	44	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	469	0.0	68	0.0	1500	469	0	68	0.47	0	65.5	62.3	43.6	38.9	38.9
7-8 AM	712	0.0	103	0.0	1500	712	0	103	0.49	0	65.1	61.8	42.7	38.4	38.4
8-9 AM	1074	0.0	155	0.0	1500	1074	0	155	0.53	0	64.4	60.9	41.4	37.8	37.8
9-10 AM	1362	0.0	198	0.0	1499	1362	0	198	0.85	0	63.8	58.6	34.0	37.3	37.3
10-11 AM	1497	0.0	217	0.0	1499	1497	0	217	1.10	2	63.6	56.9	31.1	37.1	37.1
11A-NOON	1556	0.0	227	0.0	1500	1556	0	227	2.29	34	63.5	51.1	30.8	36.9	36.9
NOON-1PM	1616	0.0	235	0.0	1500	1616	0	235	5.51	123	63.4	40.1	30.8	36.8	36.8
1-2 PM	1598	0.0	232	0.0	1499	1598	0	232	9.51	230	63.4	31.6	30.8	36.9	36.9
2-3 PM	1657	0.0	241	0.0	1500	1657	0	241	13.92	351	63.3	25.6	30.8	36.8	36.8
3-4 PM	1848	0.0	269	0.0	1500	1727	120	389	22.18	577	63.0	18.9	30.8	36.4	34.9
4-5 PM	1804	0.0	263	0.0	1499	1486	318	580	25.51	662	63.0	17.1	30.8	36.5	32.5
5-6 PM	1643	0.0	239	0.0	1499	1437	206	445	23.83	616	63.3	18.0	30.8	36.8	34.2
6-7 PM	1514	0.0	220	0.0	1500	1449	65	286	22.02	566	63.6	19.1	30.8	37.0	36.2
7-8 PM	1204	0.0	175	0.0	1499	1204	0	175	15.76	407	64.1	23.8	31.0	37.6	37.6
8-9 PM	961	0.0	140	0.0	1500	961	0	140	2.28	60	64.6	51.9	40.2	38.0	38.0
9-10 PM	780	0.0	113	0.0	1500	780	0	113	0.50	0	65.0	61.6	42.5	38.3	38.3
10-11 PM	616	0.0	90	0.0	1500	616	0	90	0.48	0	65.3	62.0	43.1	38.6	38.6
11PM-MID	457	0.0	67	0.0	1500	457	0	67	0.47	0	65.5	62.3	43.7	38.9	38.9

*----- 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	0.0385
MAIN ROUTE WITH WORKS	0.0358
DIVERSION	0.0943

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$69,339
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding 15 Minutes

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**CONTINUOUS (24 HOUR) CLOSURE**  
**DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - STH 11**

**OCTOBER**  
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 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SATURDAY EASTBOUND DIRECTION**

