

**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**

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	260	0.0	38	0.0	1500	260	0	38	0.45	0	65.9	62.8	44.5	39.2	39.2
1-2 AM	188	0.0	28	0.0	1500	188	0	28	0.44	0	66.0	63.0	44.7	39.4	39.4
2-3 AM	147	0.0	22	0.0	1500	147	0	22	0.44	0	66.1	63.1	44.9	39.5	39.5
3-4 AM	116	0.0	16	0.0	1500	116	0	16	0.43	0	66.2	63.2	45.0	39.6	39.6
4-5 AM	150	0.0	22	0.0	1500	150	0	22	0.44	0	66.1	63.1	44.9	39.5	39.5
5-6 AM	230	0.0	33	0.0	1500	230	0	33	0.44	0	66.0	62.9	44.6	39.3	39.3
6-7 AM	356	0.0	51	0.0	1500	356	0	51	0.46	0	65.7	62.6	44.1	39.1	39.1
7-8 AM	526	0.0	76	0.0	1500	526	0	76	0.47	0	65.4	62.2	43.4	38.8	38.8
8-9 AM	810	0.0	117	0.0	1500	810	0	117	0.50	0	64.9	61.5	42.4	38.3	38.3
9-10 AM	1170	0.0	170	0.0	1499	1170	0	170	0.62	0	64.2	60.2	39.0	37.6	37.6
10-11 AM	1532	0.0	222	0.0	1499	1532	0	222	1.46	13	63.5	55.0	31.2	37.0	37.0
11A-NOON	1778	0.0	258	0.0	1500	1778	0	258	7.28	181	63.1	35.7	30.8	36.5	36.5
NOON-1PM	1886	0.0	274	0.0	1500	1826	60	333	19.53	513	62.8	20.6	30.8	36.3	35.6
1-2 PM	1836	0.0	267	0.0	1499	1512	324	591	25.64	666	63.0	17.1	30.8	36.5	32.4
2-3 PM	1881	0.0	273	0.0	1500	1520	361	634	26.22	682	62.9	16.8	30.8	36.3	31.9
3-4 PM	1871	0.0	272	0.0	1499	1498	374	645	26.38	686	62.9	16.7	30.8	36.4	31.7
4-5 PM	1933	0.0	281	0.0	1500	1518	415	696	27.09	706	62.8	16.3	30.8	36.3	31.1
5-6 PM	1693	0.0	246	0.0	1499	1397	297	543	25.05	650	63.2	17.4	30.8	36.7	33.0
6-7 PM	1480	0.0	215	0.0	1500	1418	62	278	21.88	563	63.7	19.1	30.8	37.1	36.3
7-8 PM	1197	0.0	174	0.0	1499	1197	0	174	14.91	385	64.1	24.7	31.1	37.6	37.6
8-9 PM	972	0.0	141	0.0	1500	972	0	141	1.98	49	64.6	53.2	40.5	38.0	38.0
9-10 PM	800	0.0	116	0.0	1500	800	0	116	0.50	0	64.9	61.5	42.4	38.3	38.3
10-11 PM	505	0.0	73	0.0	1500	505	0	73	0.47	0	65.5	62.2	43.5	38.8	38.8
11PM-MID	396	0.0	58	0.0	1500	396	0	58	0.46	0	65.6	62.5	43.9	39.0	39.0

*----- 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	0.0377
MAIN ROUTE WITH WORKS	0.0333
DIVERSION	0.1191

PIA: Personal Injury Accidents

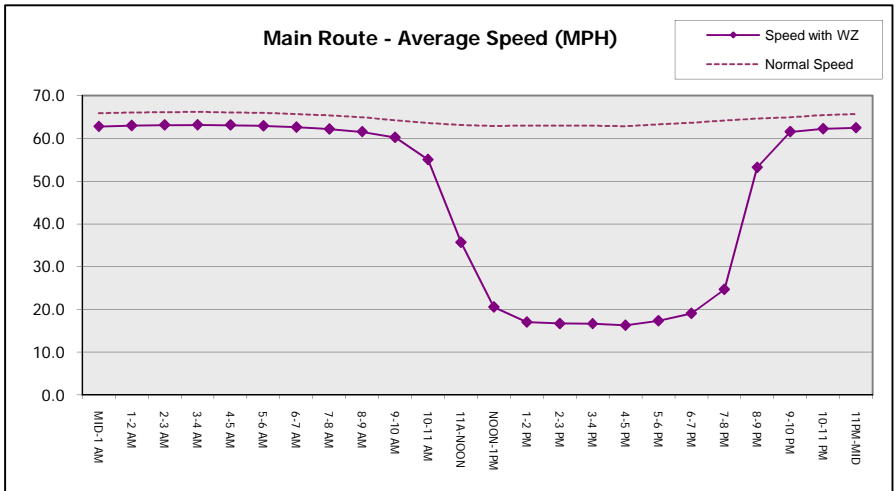
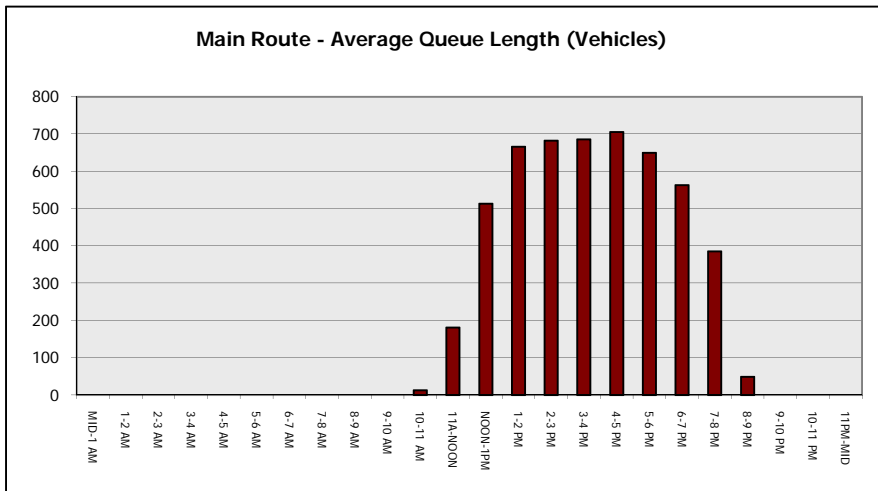
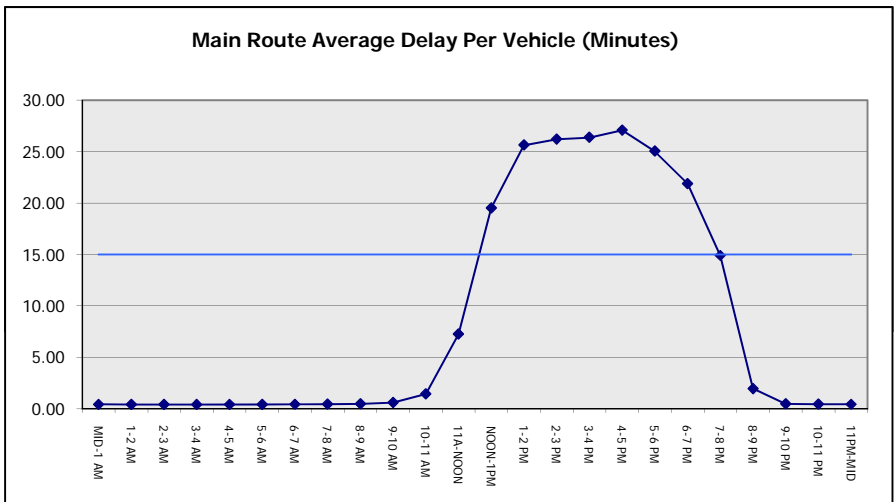
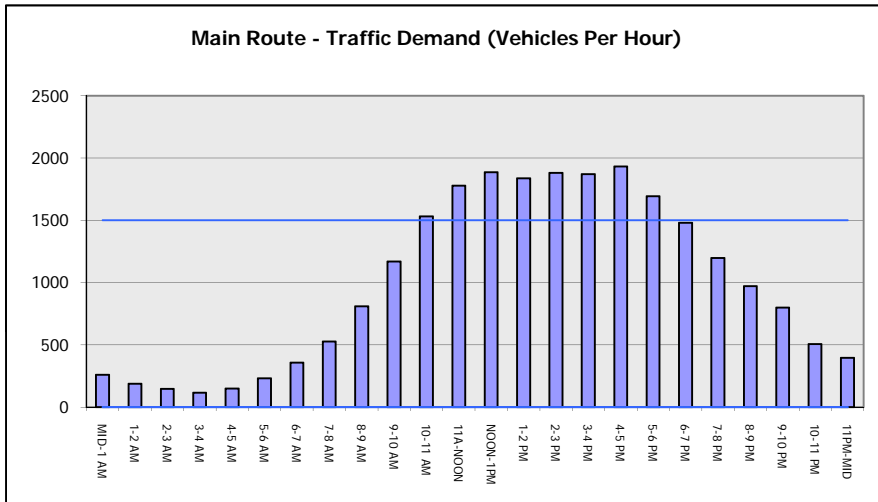
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$110,207
CONGESTED HOURS PER DAY*	7

\*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**  
**SUNDAY 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**

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	300	0.0	43	0.0	1500	300	0	43	0.45	0	65.8	62.7	44.3	39.2	39.2
1-2 AM	230	0.0	33	0.0	1500	230	0	33	0.44	0	66.0	62.9	44.6	39.3	39.3
2-3 AM	186	0.0	27	0.0	1500	186	0	27	0.44	0	66.0	63.0	44.7	39.4	39.4
3-4 AM	156	0.0	23	0.0	1500	156	0	23	0.44	0	66.1	63.0	44.8	39.4	39.4
4-5 AM	160	0.0	23	0.0	1500	160	0	23	0.44	0	66.1	63.0	44.8	39.4	39.4
5-6 AM	199	0.0	29	0.0	1500	199	0	29	0.44	0	66.0	63.0	44.7	39.4	39.4
6-7 AM	329	0.0	47	0.0	1500	329	0	47	0.45	0	65.8	62.7	44.2	39.2	39.2
7-8 AM	548	0.0	79	0.0	1500	548	0	79	0.48	0	65.4	62.2	43.3	38.8	38.8
8-9 AM	933	0.0	136	0.0	1499	933	0	136	0.51	0	64.6	61.2	41.9	38.1	38.1
9-10 AM	1420	0.0	206	0.0	1499	1420	0	206	1.08	5	63.7	57.2	33.2	37.2	37.2
10-11 AM	1933	0.0	281	0.0	1500	1933	0	281	7.78	210	62.8	34.6	30.8	36.3	36.3
11A-NOON	2330	0.0	339	0.0	1498	1945	383	722	27.25	724	62.0	16.3	30.7	35.5	30.7
NOON-1PM	2647	0.0	384	0.0	1500	1730	917	1301+	38.21	1023	59.4	12.4	30.8	35.0	23.6
1-2 PM	2712	0.0	394	0.0	1500	1599	1113	1507+	43.99	1180	58.7	11.1	30.8	34.8	21.1
2-3 PM	2855	0.0	415	0.0	1500	1635	1220	1635+	48.15	1300	57.3	10.2	30.8	34.6	19.4
3-4 PM	2884	0.0	419	0.0	1500	1499	1385	1804+	50.63	1367	56.9	9.8	30.8	34.5	18.6
4-5 PM	2811	0.0	409	0.0	1500	1486	1326	1734+	50.64	1364	57.7	9.8	30.8	34.7	18.7
5-6 PM	2399	0.0	348	0.0	1500	1210	1188	1537+	45.47	1209	61.9	10.9	30.8	35.4	20.7
6-7 PM	2121	0.0	308	0.0	1500	1257	863	1171	35.62	941	62.4	13.2	30.8	35.9	25.2
7-8 PM	1619	0.0	236	0.0	1500	1247	372	608	25.93	677	63.3	17.0	30.8	36.8	32.2
8-9 PM	1198	0.0	174	0.0	1499	1198	0	174	16.94	439	64.1	22.8	31.1	37.6	37.6
9-10 PM	806	0.0	117	0.0	1500	806	0	117	2.03	56	64.9	53.2	41.9	38.3	38.3
10-11 PM	550	0.0	80	0.0	1500	550	0	80	0.48	0	65.4	62.2	43.3	38.8	38.8
11PM-MID	396	0.0	58	0.0	1500	396	0	58	0.46	0	65.6	62.5	43.9	39.0	39.0

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

*----- 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	0.0505
MAIN ROUTE WITH WORKS	0.0350
DIVERSION	0.2986

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$309,741
CONGESTED HOURS PER DAY*	10

\*Delays Exceeding 15 Minutes

**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

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

