

IH 39/90: STH 11 TO STATE LINE (ROCK COUNTY) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - STH 11	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	546	0.0	79	0.0	OFF	546	0	79	0.00	0	65.4	65.4	65.4	38.8	38.8
1-2 AM	452	0.0	66	0.0	OFF	452	0	66	0.00	0	65.5	65.5	65.5	38.9	38.9
2-3 AM	389	0.0	57	0.0	OFF	389	0	57	0.00	0	65.6	65.6	65.6	39.1	39.1
3-4 AM	382	0.0	56	0.0	OFF	382	0	56	0.00	0	65.7	65.7	65.7	39.1	39.1
4-5 AM	490	0.0	71	0.0	OFF	490	0	71	0.00	0	65.5	65.5	65.5	38.9	38.9
5-6 AM	930	0.0	135	0.0	OFF	930	0	135	0.00	0	64.6	64.6	64.6	38.1	38.1
6-7 AM	1408	0.0	205	0.0	OFF	1408	0	205	0.00	0	63.8	63.8	63.8	37.2	37.2
7-8 AM	1701	0.0	247	0.0	OFF	1701	0	247	0.00	0	63.2	63.2	63.2	36.7	36.7
8-9 AM	1736	0.0	252	0.0	OFF	1736	0	252	0.00	0	63.2	63.2	63.2	36.6	36.6
9-10 AM	1908	0.0	277	0.0	1499	1908	0	277	7.08	188	62.8	36.1	30.8	36.3	36.3
10-11 AM	2216	0.0	322	0.0	1499	1922	295	617	24.85	661	62.3	17.4	30.8	35.8	32.1
11A-NOON	2400	0.0	349	0.0	1500	1638	762	1110	34.22	903	61.9	13.7	30.8	35.4	26.0
NOON-1PM	2494	0.0	362	0.0	1500	1576	918	1280+	37.95	1007	60.9	12.5	30.8	35.3	23.8
1-2 PM	2533	0.0	367	0.0	1500	1544	989	1357+	39.87	1060	60.5	12.0	30.8	35.2	22.9
2-3 PM	2722	0.0	395	0.0	1500	1642	1080	1475+	42.96	1153	58.6	11.3	30.8	34.8	21.4
3-4 PM	2958	0.0	429	0.0	1500	1657	1300	1729+	49.00	1328	56.2	10.1	30.8	34.4	19.1
4-5 PM	2867	0.0	417	0.0	OFF	2867	0	417	14.97	819	57.1	23.5	23.5	34.6	34.6
5-6 PM	2764	0.0	401	0.0	OFF	2764	0	401	0.87	25	58.2	53.7	53.7	34.8	34.8
6-7 PM	2547	0.0	370	0.0	OFF	2547	0	370	0.00	0	60.4	60.4	60.4	35.1	35.1
7-8 PM	2216	0.0	322	0.0	OFF	2216	0	322	0.00	0	62.3	62.3	62.3	35.8	35.8
8-9 PM	2068	0.0	301	0.0	OFF	2068	0	301	0.00	0	62.5	62.5	62.5	36.0	36.0
9-10 PM	1827	0.0	266	0.0	OFF	1827	0	266	0.00	0	63.0	63.0	63.0	36.5	36.5
10-11 PM	1320	0.0	191	0.0	OFF	1320	0	191	0.00	0	63.9	63.9	63.9	37.4	37.4
11PM-MID	744	0.0	108	0.0	OFF	744	0	108	0.00	0	65.0	65.0	65.0	38.4	38.4

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

+ 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	0.0662
MAIN ROUTE WITH WORKS	0.0569
DIVERSION	0.2542

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$150,789
CONGESTED HOURS PER DAY*	6

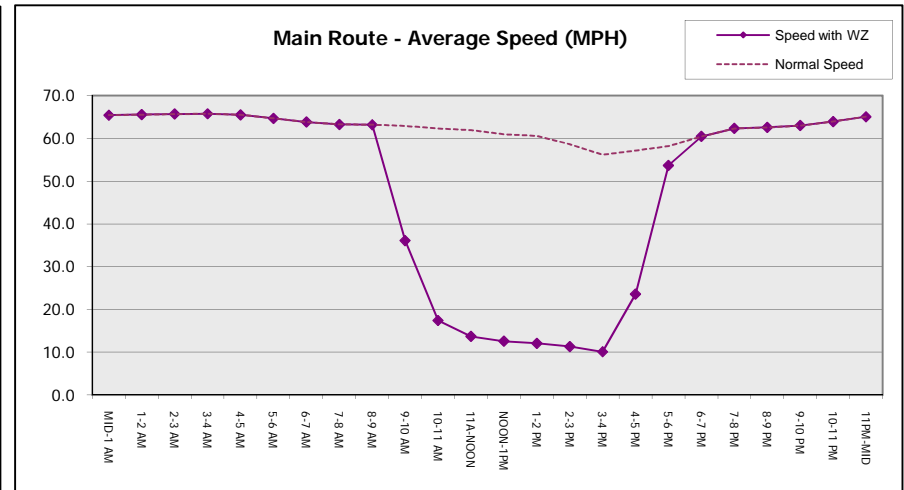
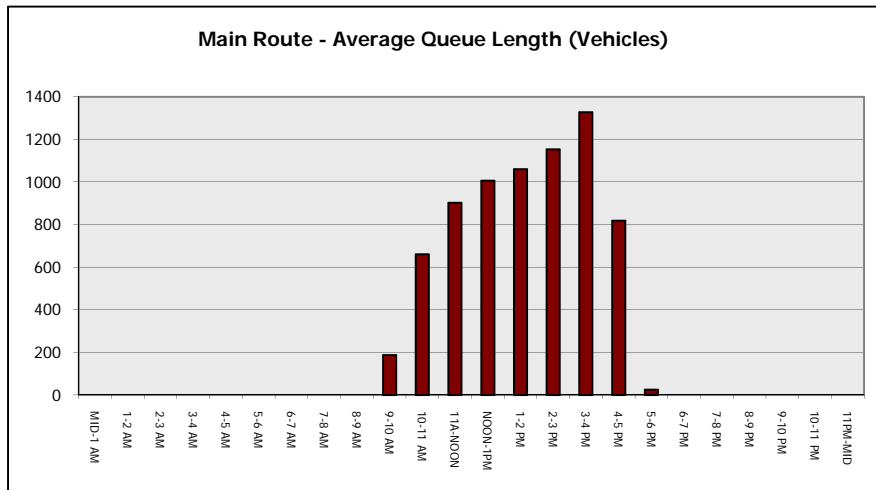
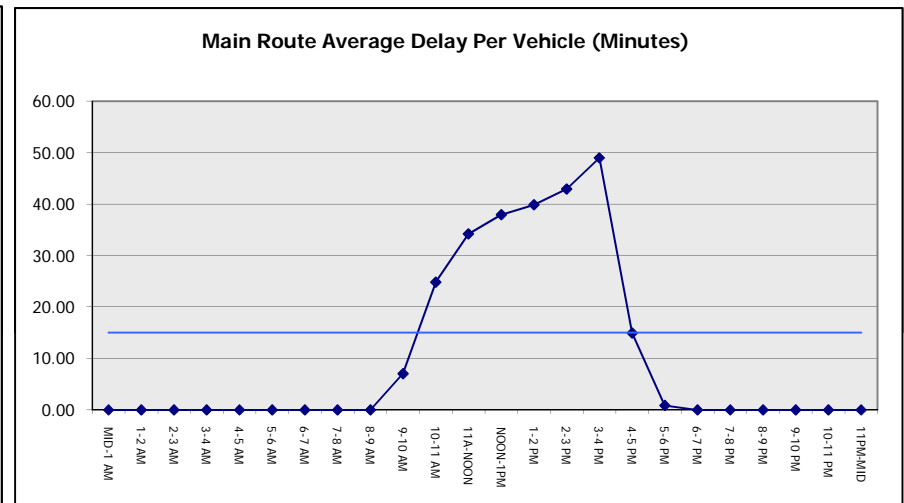
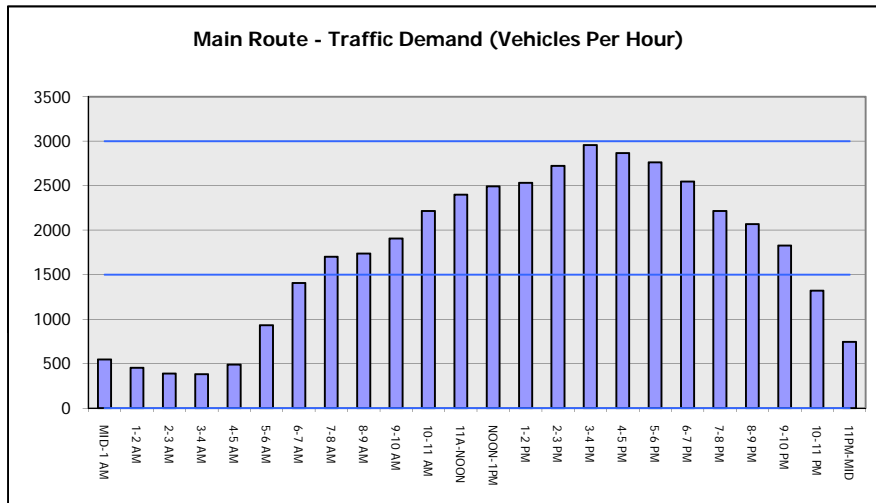
*Delays Exceeding 15 Minutes

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

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY WESTBOUND DIRECTION



IH 39/90: STH 11 TO STATE LINE (ROCK COUNTY) OFF-PEAK DAY CLOSURE DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - STH 11	AUGUST
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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							TOTAL			AVERAGE SPEEDS IN MPH					
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	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	478	0.0	69	0.0	OFF	478	0	69	0.00	0	65.5	65.5	65.5	38.9	38.9	
1-2 AM	388	0.0	57	0.0	OFF	388	0	57	0.00	0	65.6	65.6	65.6	39.1	39.1	
2-3 AM	390	0.0	57	0.0	OFF	390	0	57	0.00	0	65.6	65.6	65.6	39.1	39.1	
3-4 AM	442	0.0	64	0.0	OFF	442	0	64	0.00	0	65.6	65.6	65.6	38.9	38.9	
4-5 AM	466	0.0	68	0.0	OFF	466	0	68	0.00	0	65.5	65.5	65.5	38.9	38.9	
5-6 AM	571	0.0	83	0.0	OFF	571	0	83	0.00	0	65.3	65.3	65.3	38.7	38.7	
6-7 AM	786	0.0	114	0.0	OFF	786	0	114	0.00	0	64.9	64.9	64.9	38.3	38.3	
7-8 AM	1193	0.0	173	0.0	OFF	1193	0	173	0.00	0	64.1	64.1	64.1	37.6	37.6	
8-9 AM	1359	0.0	198	0.0	OFF	1359	0	198	0.00	0	63.8	63.8	63.8	37.3	37.3	
9-10 AM	1596	0.0	232	0.0	1499	1596	0	232	2.21	34	63.4	51.4	30.8	36.9	36.9	
10-11 AM	1793	0.0	260	0.0	1500	1793	0	260	9.05	230	63.0	32.3	30.8	36.5	36.5	
11A-NOON	1988	0.0	288	0.0	1500	1832	156	444	22.26	586	62.7	18.8	30.8	36.1	34.2	
NOON-1PM	2103	0.0	306	0.0	1499	1581	522	828	29.08	761	62.5	15.5	30.8	36.0	29.4	
1-2 PM	2295	0.0	333	0.0	1499	1605	690	1023	32.50	855	62.1	14.2	30.8	35.6	27.0	
2-3 PM	2410	0.0	350	0.0	1499	1576	834	1184	35.81	945	61.8	13.2	30.8	35.4	25.0	
3-4 PM	2473	0.0	359	0.0	1499	1550	922	1282+	38.03	1008	61.2	12.5	30.8	35.3	23.8	
4-5 PM	2520	0.0	366	0.0	OFF	2520	0	366	7.49	360	60.7	34.5	34.5	35.2	35.2	
5-6 PM	2420	0.0	352	0.0	OFF	2420	0	352	0.00	0	61.7	61.7	61.7	35.4	35.4	
6-7 PM	1954	0.0	284	0.0	OFF	1954	0	284	0.00	0	62.7	62.7	62.7	36.2	36.2	
7-8 PM	1744	0.0	253	0.0	OFF	1744	0	253	0.00	0	63.2	63.2	63.2	36.6	36.6	
8-9 PM	1393	0.0	202	0.0	OFF	1393	0	202	0.00	0	63.8	63.8	63.8	37.3	37.3	
9-10 PM	1188	0.0	173	0.0	OFF	1188	0	173	0.00	0	64.1	64.1	64.1	37.6	37.6	
10-11 PM	1002	0.0	145	0.0	OFF	1002	0	145	0.00	0	64.5	64.5	64.5	37.9	37.9	
11PM-MID	715	0.0	104	0.0	OFF	715	0	104	0.00	0	65.1	65.1	65.1	38.4	38.4	

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

+ 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	0.0536
MAIN ROUTE WITH WORKS	0.0478
DIVERSION	0.1789

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$92,053
CONGESTED HOURS PER DAY*	5

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY CLOSURE
DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - STH 11

AUGUST
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

