

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

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	324	0.0	47	0.0	OFF	324	0	47	0.00	0	65.8	65.8	65.8	39.2	39.2
1-2 AM	210	0.0	31	0.0	OFF	210	0	31	0.00	0	66.0	66.0	66.0	39.4	39.4
2-3 AM	195	0.0	28	0.0	OFF	195	0	28	0.00	0	66.0	66.0	66.0	39.4	39.4
3-4 AM	151	0.0	22	0.0	OFF	151	0	22	0.00	0	66.1	66.1	66.1	39.5	39.5
4-5 AM	174	0.0	25	0.0	OFF	174	0	25	0.00	0	66.1	66.1	66.1	39.4	39.4
5-6 AM	246	0.0	36	0.0	OFF	246	0	36	0.00	0	66.0	66.0	66.0	39.3	39.3
6-7 AM	388	0.0	57	0.0	OFF	388	0	57	0.00	0	65.6	65.6	65.6	39.1	39.1
7-8 AM	681	0.0	99	0.0	OFF	681	0	99	0.00	0	65.1	65.1	65.1	38.5	38.5
8-9 AM	1071	0.0	155	0.0	OFF	1071	0	155	0.00	0	64.4	64.4	64.4	37.8	37.8
9-10 AM	1594	0.0	232	0.0	1499	1594	0	232	1.88	26	63.4	52.9	31.1	36.9	36.9
10-11 AM	2009	0.0	292	0.0	1500	2009	0	292	12.39	339	62.7	27.3	30.8	36.1	36.1
11A-NOON	2243	0.0	326	0.0	1499	1747	496	822	28.95	762	62.2	15.5	30.8	35.7	29.6
NOON-1PM	2374	0.0	345	0.0	1499	1590	783	1128	34.61	912	62.0	13.5	30.8	35.5	25.7
1-2 PM	2358	0.0	343	0.0	1499	1501	857	1200	36.20	955	62.0	13.0	30.8	35.5	24.8
2-3 PM	2314	0.0	337	0.0	1499	1468	846	1183	35.83	945	62.1	13.2	30.8	35.6	25.0
3-4 PM	2060	0.0	300	0.0	1499	1357	703	1002	32.16	845	62.5	14.3	30.8	36.0	27.3
4-5 PM	1954	0.0	284	0.0	1499	1436	518	802	28.70	750	62.7	15.6	30.8	36.2	29.8
5-6 PM	1694	0.0	246	0.0	1499	1387	307	553	25.18	654	63.2	17.3	30.8	36.7	32.9
6-7 PM	1459	0.0	212	0.0	1500	1414	45	257	21.53	553	63.7	19.4	30.8	37.1	36.6
7-8 PM	1458	0.0	212	0.0	OFF	1458	0	212	0.93	52	63.7	57.9	57.9	37.1	37.1
8-9 PM	1203	0.0	175	0.0	OFF	1203	0	175	0.00	0	64.1	64.1	64.1	37.6	37.6
9-10 PM	912	0.0	133	0.0	OFF	912	0	133	0.00	0	64.7	64.7	64.7	38.1	38.1
10-11 PM	705	0.0	102	0.0	OFF	705	0	102	0.00	0	65.1	65.1	65.1	38.5	38.5
11PM-MID	521	0.0	75	0.0	OFF	521	0	75	0.00	0	65.4	65.4	65.4	38.8	38.8

"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	0.0450
MAIN ROUTE WITH WORKS	0.0368
DIVERSION	0.1935

PIA: Personal Injury Accidents

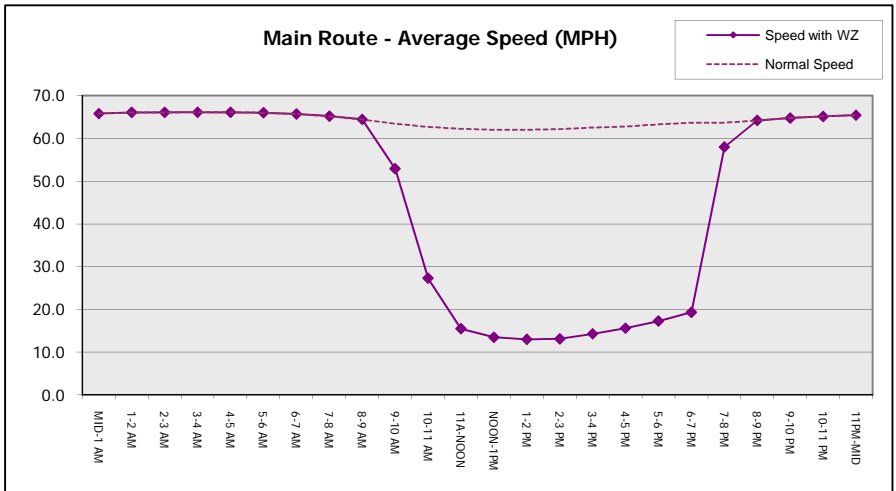
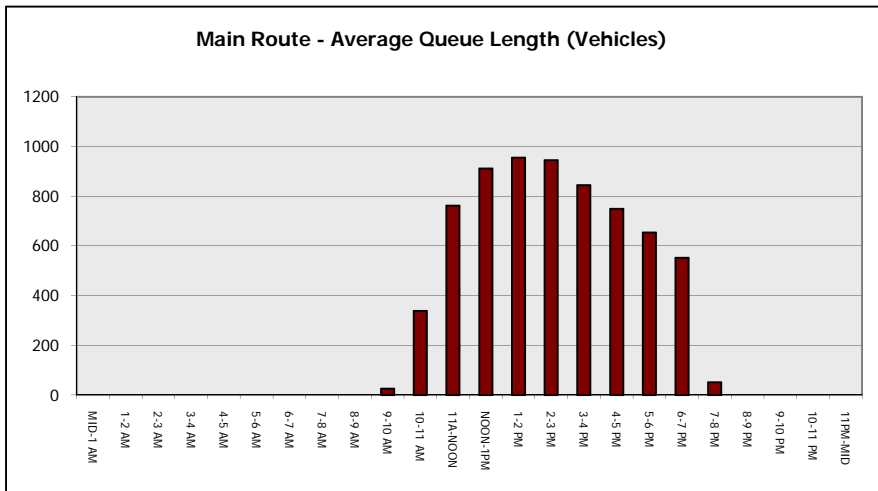
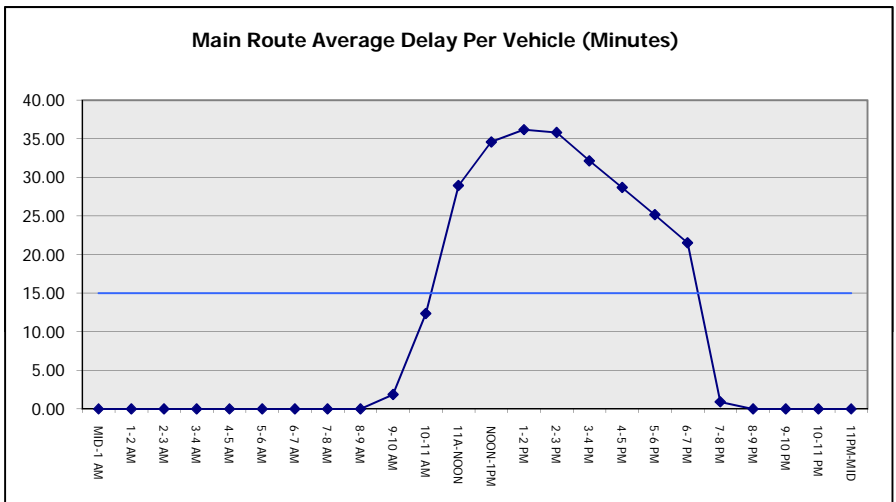
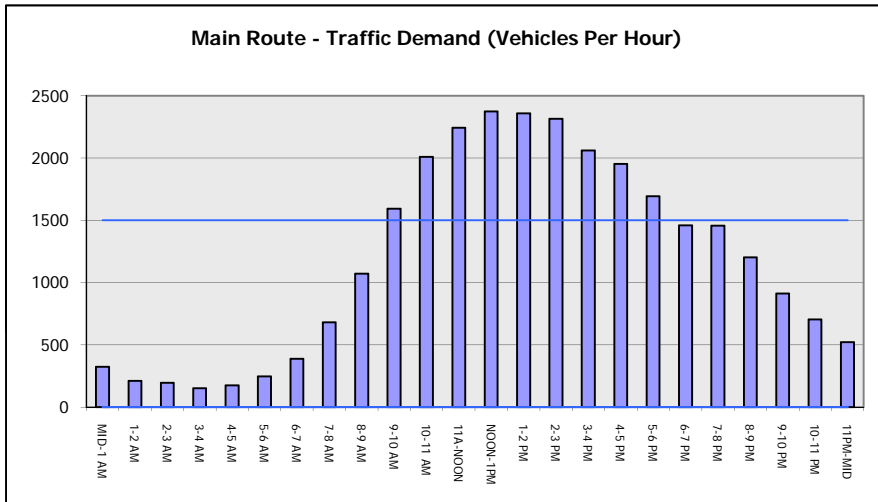
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$168,718
CONGESTED HOURS PER DAY*	8

*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
SUNDAY 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 Analyzed for 2009 Construction Season
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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	392	0.0	57	0.0	OFF	392	0	57	0.00	0	65.6	65.6	65.6	39.1	39.1
1-2 AM	313	0.0	45	0.0	OFF	313	0	45	0.00	0	65.8	65.8	65.8	39.2	39.2
2-3 AM	271	0.0	39	0.0	OFF	271	0	39	0.00	0	65.9	65.9	65.9	39.2	39.2
3-4 AM	212	0.0	31	0.0	OFF	212	0	31	0.00	0	66.0	66.0	66.0	39.4	39.4
4-5 AM	190	0.0	28	0.0	OFF	190	0	28	0.00	0	66.0	66.0	66.0	39.4	39.4
5-6 AM	219	0.0	32	0.0	OFF	219	0	32	0.00	0	66.0	66.0	66.0	39.4	39.4
6-7 AM	398	0.0	58	0.0	OFF	398	0	58	0.00	0	65.6	65.6	65.6	39.0	39.0
7-8 AM	668	0.0	97	0.0	OFF	668	0	97	0.00	0	65.1	65.1	65.1	38.6	38.6
8-9 AM	1065	0.0	154	0.0	OFF	1065	0	154	0.00	0	64.4	64.4	64.4	37.8	37.8
9-10 AM	1663	0.0	242	0.0	1499	1663	0	242	2.32	41	63.3	50.9	30.8	36.8	36.8
10-11 AM	2395	0.0	348	0.0	1500	2214	182	530	18.79	537	61.9	21.1	30.8	35.4	33.2
11A-NOON	2913	0.0	423	0.0	1500	1932	982	1405+	40.52	1104	56.6	11.7	30.8	34.5	22.3
NOON-1PM	3072	0.0	447	0.0	1500	1500	1572	2018+	50.27	1367	55.0	9.8	30.8	34.2	18.6
1-2 PM	3199	0.0	465	0.0	1500	1500	1699	2164+	50.00	1367	53.7	9.8	30.8	34.0	18.6
2-3 PM	3252	0.0	472	0.0	1500	1500	1752	2224+	49.89	1367	53.2	9.8	30.8	33.9	18.6
3-4 PM	3349	0.0	486	0.0	1500	1500	1848	2334+	49.67	1367	52.2	9.8	30.8	33.7	18.6
4-5 PM	3086	0.0	449	0.0	1500	1500	1586	2035+	50.24	1367	54.9	9.8	30.8	34.2	18.6
5-6 PM	3078	0.0	447	0.0	1500	1500	1578	2024+	50.25	1367	55.0	9.8	30.8	34.2	18.6
6-7 PM	2893	0.0	420	0.0	1500	1516	1377	1797+	50.47	1364	56.9	9.8	30.8	34.5	18.7
7-8 PM	2527	0.0	367	0.0	OFF	2527	0	367	11.81	597	60.6	27.6	27.6	35.2	35.2
8-9 PM	2085	0.0	303	0.0	OFF	2085	0	303	0.00	0	62.5	62.5	62.5	36.0	36.0
9-10 PM	1476	0.0	214	0.0	OFF	1476	0	214	0.00	0	63.7	63.7	63.7	37.1	37.1
10-11 PM	897	0.0	131	0.0	OFF	897	0	131	0.00	0	64.7	64.7	64.7	38.1	38.1
11PM-MID	623	0.0	91	0.0	OFF	623	0	91	0.00	0	65.2	65.2	65.2	38.6	38.6

"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	0.0640
MAIN ROUTE WITH WORKS	0.0429
DIVERSION	0.4112

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$403,988
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

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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
SUNDAY EASTBOUND DIRECTION

