

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

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	313	0.0	45	0.0	1500	313	0	45	0.45	0	65.8	62.7	44.2	39.2	39.2
1-2 AM	256	0.0	37	0.0	1500	256	0	37	0.45	0	65.9	62.8	44.5	39.3	39.3
2-3 AM	297	0.0	43	0.0	1500	297	0	43	0.45	0	65.8	62.7	44.3	39.2	39.2
3-4 AM	303	0.0	44	0.0	1500	303	0	44	0.45	0	65.8	62.7	44.3	39.2	39.2
4-5 AM	476	0.0	69	0.0	1500	476	0	69	0.47	0	65.5	62.3	43.6	38.9	38.9
5-6 AM	905	0.0	132	0.0	OFF	905	0	132	0.00	0	64.7	64.7	64.7	38.1	38.1
6-7 AM	1371	0.0	199	0.0	OFF	1371	0	199	0.00	0	63.8	63.8	63.8	37.3	37.3
7-8 AM	1420	0.0	206	0.0	OFF	1420	0	206	0.00	0	63.7	63.7	63.7	37.2	37.2
8-9 AM	1227	0.0	178	0.0	OFF	1227	0	178	0.00	0	64.1	64.1	64.1	37.5	37.5
9-10 AM	1212	0.0	176	0.0	OFF	1212	0	176	0.00	0	64.1	64.1	64.1	37.6	37.6
10-11 AM	1286	0.0	186	0.0	OFF	1286	0	186	0.00	0	64.0	64.0	64.0	37.4	37.4
11A-NOON	1333	0.0	194	0.0	OFF	1333	0	194	0.00	0	63.9	63.9	63.9	37.3	37.3
NOON-1PM	1332	0.0	194	0.0	OFF	1332	0	194	0.00	0	63.9	63.9	63.9	37.3	37.3
1-2 PM	1398	0.0	203	0.0	OFF	1398	0	203	0.00	0	63.8	63.8	63.8	37.2	37.2
2-3 PM	1426	0.0	207	0.0	OFF	1426	0	207	0.00	0	63.7	63.7	63.7	37.2	37.2
3-4 PM	1560	0.0	227	0.0	OFF	1560	0	227	0.00	0	63.5	63.5	63.5	36.9	36.9
4-5 PM	1589	0.0	231	0.0	OFF	1589	0	231	0.00	0	63.4	63.4	63.4	36.9	36.9
5-6 PM	1347	0.0	196	0.0	OFF	1347	0	196	0.00	0	63.9	63.9	63.9	37.3	37.3
6-7 PM	1050	0.0	152	0.0	OFF	1050	0	152	0.00	0	64.5	64.5	64.5	37.9	37.9
7-8 PM	895	0.0	130	0.0	1500	895	0	130	0.51	0	64.7	61.4	42.0	38.1	38.1
8-9 PM	821	0.0	119	0.0	1500	821	0	119	0.50	0	64.8	61.5	42.3	38.3	38.3
9-10 PM	690	0.0	100	0.0	1500	690	0	100	0.49	0	65.1	61.8	42.8	38.5	38.5
10-11 PM	534	0.0	77	0.0	1500	534	0	77	0.47	0	65.4	62.2	43.3	38.8	38.8
11PM-MID	357	0.0	51	0.0	1500	357	0	51	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	0.0372
MAIN ROUTE WITH WORKS	0.0369
DIVERSION	0.0758

PIA: Personal Injury Accidents

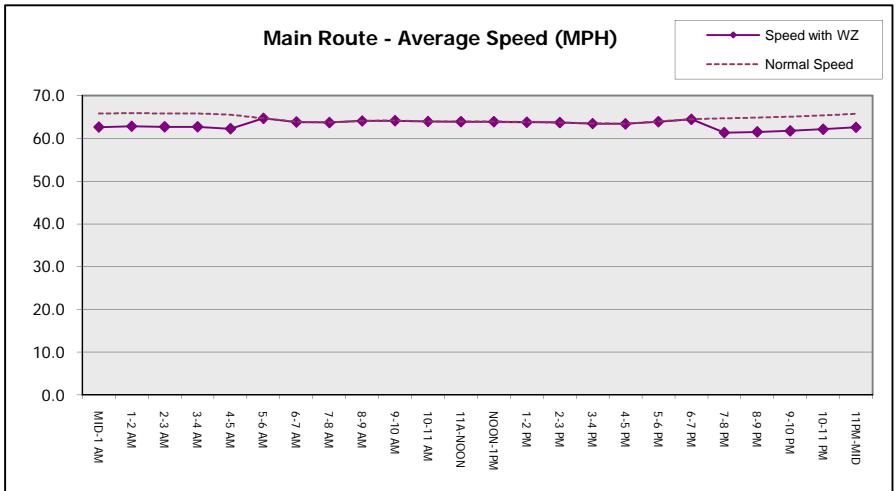
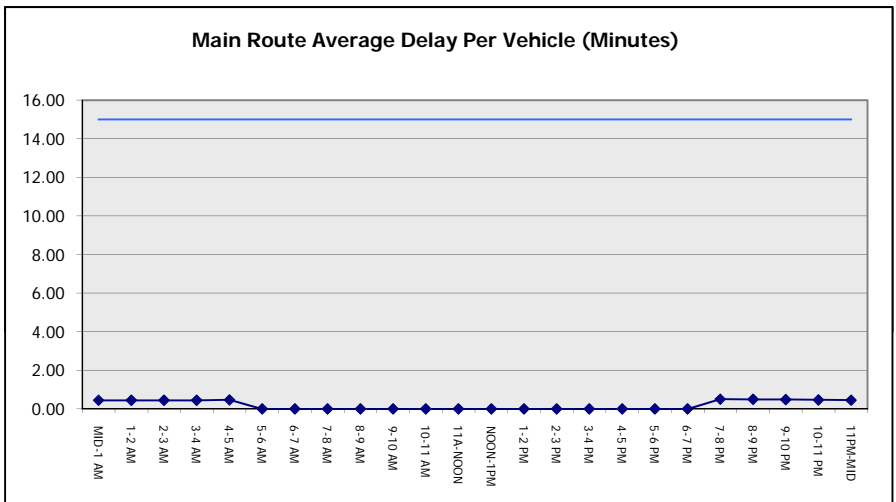
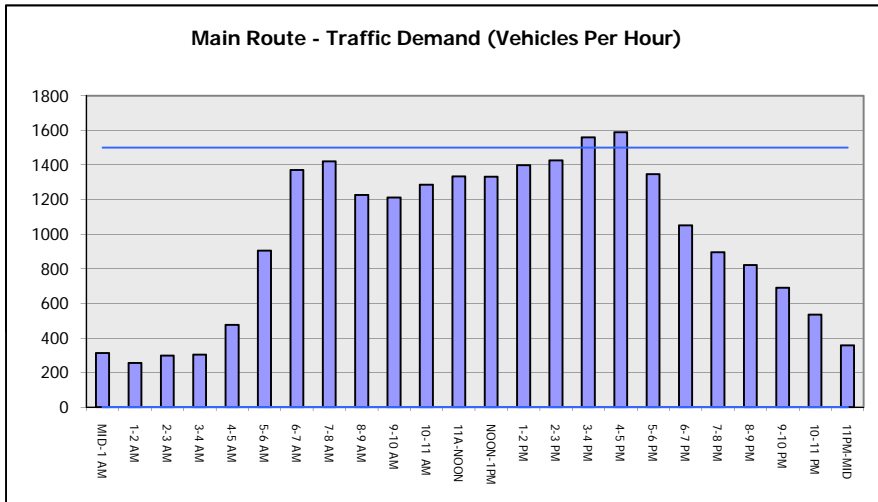
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$479
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME CLOSURE
DIVERSION ROUTE: IH 43 - STH 140 - USH 14 - USH 11

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



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

MON-THUR 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	309	0.0	45	0.0	1500	309	0	45	0.45	0	65.8	62.7	44.3	39.2	39.2	
1-2 AM	260	0.0	38	0.0	1500	260	0	38	0.45	0	65.9	62.8	44.5	39.2	39.2	
2-3 AM	287	0.0	42	0.0	1500	287	0	42	0.45	0	65.8	62.7	44.3	39.2	39.2	
3-4 AM	347	0.0	50	0.0	1500	347	0	50	0.46	0	65.8	62.6	44.1	39.1	39.1	
4-5 AM	447	0.0	65	0.0	1500	447	0	65	0.47	0	65.6	62.3	43.7	38.9	38.9	
5-6 AM	649	0.0	95	0.0	OFF	649	0	95	0.00	0	65.2	65.2	65.2	38.6	38.6	
6-7 AM	951	0.0	138	0.0	OFF	951	0	138	0.00	0	64.6	64.6	64.6	38.0	38.0	
7-8 AM	1250	0.0	181	0.0	OFF	1250	0	181	0.00	0	64.1	64.1	64.1	37.5	37.5	
8-9 AM	1206	0.0	175	0.0	OFF	1206	0	175	0.00	0	64.1	64.1	64.1	37.6	37.6	
9-10 AM	1264	0.0	183	0.0	OFF	1264	0	183	0.00	0	64.0	64.0	64.0	37.4	37.4	
10-11 AM	1333	0.0	194	0.0	OFF	1333	0	194	0.00	0	63.9	63.9	63.9	37.3	37.3	
11A-NOON	1417	0.0	206	0.0	OFF	1417	0	206	0.00	0	63.7	63.7	63.7	37.2	37.2	
NOON-1PM	1490	0.0	216	0.0	OFF	1490	0	216	0.00	0	63.6	63.6	63.6	37.1	37.1	
1-2 PM	1597	0.0	232	0.0	OFF	1597	0	232	0.00	0	63.4	63.4	63.4	36.9	36.9	
2-3 PM	1746	0.0	253	0.0	OFF	1746	0	253	0.00	0	63.2	63.2	63.2	36.6	36.6	
3-4 PM	1937	0.0	281	0.0	OFF	1937	0	281	0.00	0	62.8	62.8	62.8	36.3	36.3	
4-5 PM	2011	0.0	292	0.0	OFF	2011	0	292	0.00	0	62.7	62.7	62.7	36.1	36.1	
5-6 PM	1824	0.0	265	0.0	OFF	1824	0	265	0.00	0	63.0	63.0	63.0	36.5	36.5	
6-7 PM	1354	0.0	197	0.0	OFF	1354	0	197	0.00	0	63.8	63.8	63.8	37.3	37.3	
7-8 PM	1036	0.0	150	0.0	1500	1036	0	150	0.52	0	64.5	61.0	41.5	37.9	37.9	
8-9 PM	850	0.0	124	0.0	1500	850	0	124	0.50	0	64.8	61.5	42.2	38.2	38.2	
9-10 PM	711	0.0	103	0.0	1500	711	0	103	0.49	0	65.1	61.8	42.7	38.4	38.4	
10-11 PM	537	0.0	78	0.0	1500	537	0	78	0.47	0	65.4	62.2	43.3	38.8	38.8	
11PM-MID	374	0.0	55	0.0	1500	374	0	55	0.46	0	65.7	62.5	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	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	0.0401
MAIN ROUTE WITH WORKS	0.0397
DIVERSION	0.0817

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$504
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

