

USH 41: IH 43 TO STH 29 (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	238	0.0	1500	238	0	0.45	0	66.0	53.0	44.5
1-2 AM	157	0.0	1500	157	0	0.44	0	66.1	53.2	44.8
2-3 AM	141	0.0	1500	141	0	0.44	0	66.1	53.3	44.9
3-4 AM	91	0.0	1500	91	0	0.43	0	66.2	53.5	45.1
4-5 AM	132	0.0	1500	132	0	0.44	0	66.1	53.3	45.0
5-6 AM	294	0.0	1500	294	0	0.45	0	65.8	52.8	44.3
6-7 AM	359	0.0	1500	359	0	0.46	0	65.7	52.5	44.0
7-8 AM	625	0.0	1500	625	0	0.48	0	65.2	51.7	43.0
8-9 AM	1038	0.0	1499	1038	0	0.56	0	64.5	49.5	40.4
9-10 AM	1824	0.0	OFF	1824	0	0.00	0	63.0	63.0	63.0
10-11 AM	2154	0.0	OFF	2154	0	0.00	0	62.3	62.3	62.3
11AM-NOON	2184	0.0	OFF	2184	0	0.00	0	62.3	62.3	62.3
NOON-1PM	2111	0.0	OFF	2111	0	0.00	0	62.5	62.5	62.5
1-2 PM	2117	0.0	OFF	2117	0	0.00	0	62.4	62.4	62.4
2-3 PM	2216	0.0	OFF	2216	0	0.00	0	62.3	62.3	62.3
3-4 PM	2061	0.0	OFF	2061	0	0.00	0	62.5	62.5	62.5
4-5 PM	2041	0.0	OFF	2041	0	0.00	0	62.6	62.6	62.6
5-6 PM	1723	0.0	OFF	1723	0	0.00	0	63.2	63.2	63.2
6-7 PM	1328	0.0	OFF	1328	0	0.00	0	63.9	63.9	63.9
7-8 PM	881	0.0	1500	881	0	0.51	0	64.8	50.8	42.1
8-9 PM	632	0.0	1500	632	0	0.48	0	65.2	51.6	43.0
9-10 PM	455	0.0	1500	455	0	0.47	0	65.5	52.2	43.7
10-11 PM	308	0.0	1500	308	0	0.45	0	65.8	52.7	44.3
11PM-MID	217	0.0	1500	217	0	0.44	0	66.0	53.0	44.6

"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
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0081
MAIN ROUTE WITH WORKS	0.0077
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$631
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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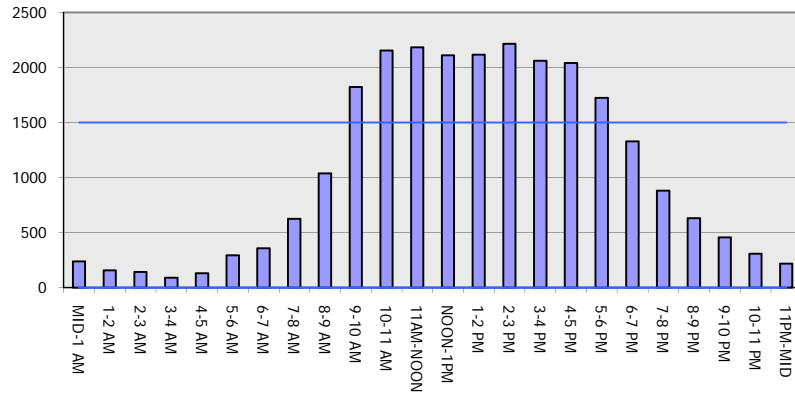
OCTOBER

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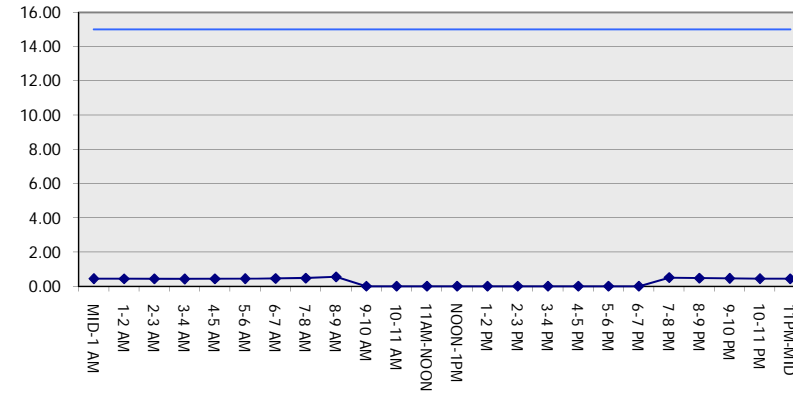
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY SOUTHBOUND DIRECTION

Main Route - Traffic Demand (Vehicles Per Hour)



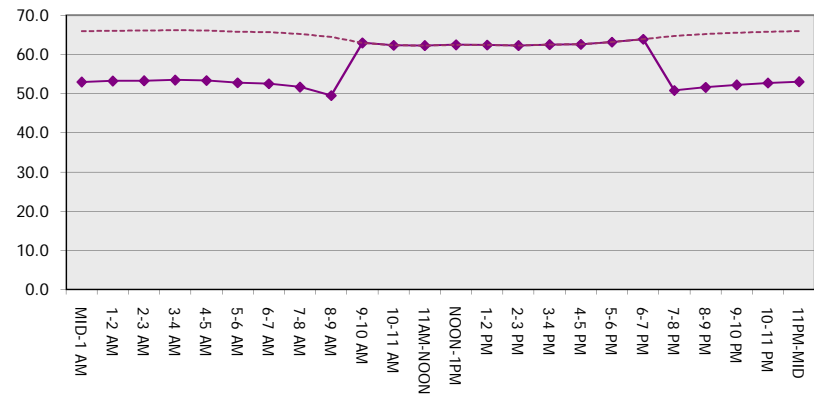
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE	
MID-1 AM	364	0.0	1500	364	0	0.46	0	65.7	52.5	44.0
1-2 AM	202	0.0	1500	202	0	0.44	0	66.0	53.1	44.6
2-3 AM	170	0.0	1500	170	0	0.44	0	66.1	53.2	44.8
3-4 AM	111	0.0	1500	111	0	0.43	0	66.2	53.4	45.0
4-5 AM	145	0.0	1500	145	0	0.44	0	66.1	53.3	44.9
5-6 AM	206	0.0	1500	206	0	0.44	0	66.0	53.1	44.6
6-7 AM	300	0.0	1500	300	0	0.45	0	65.8	52.8	44.3
7-8 AM	377	0.0	1500	377	0	0.46	0	65.7	52.5	44.0
8-9 AM	565	0.0	1500	565	0	0.48	0	65.3	51.9	43.3
9-10 AM	830	0.0	OFF	830	0	0.00	0	64.8	64.8	64.8
10-11 AM	1183	0.0	OFF	1183	0	0.00	0	64.2	64.2	64.2
11AM-NOON	1498	0.0	OFF	1498	0	0.00	0	63.6	63.6	63.6
NOON-1PM	1580	0.0	OFF	1580	0	0.00	0	63.5	63.5	63.5
1-2 PM	1467	0.0	OFF	1467	0	0.00	0	63.7	63.7	63.7
2-3 PM	1589	0.0	OFF	1589	0	0.00	0	63.4	63.4	63.4
3-4 PM	1785	0.0	OFF	1785	0	0.00	0	63.0	63.0	63.0
4-5 PM	1730	0.0	OFF	1730	0	0.00	0	63.2	63.2	63.2
5-6 PM	1584	0.0	OFF	1584	0	0.00	0	63.4	63.4	63.4
6-7 PM	1249	0.0	OFF	1249	0	0.00	0	64.1	64.1	64.1
7-8 PM	871	0.0	1500	871	0	0.51	0	64.8	50.9	42.2
8-9 PM	588	0.0	1500	588	0	0.48	0	65.3	51.8	43.2
9-10 PM	483	0.0	1500	483	0	0.47	0	65.5	52.1	43.6
10-11 PM	416	0.0	1500	416	0	0.46	0	65.6	52.4	43.8
11PM-MID	882	0.0	1500	882	0	0.51	0	64.8	50.8	42.1

"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
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0064
MAIN ROUTE WITH WORKS	0.0060
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$629
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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SUNDAY NORTHBOUND DIRECTION

