

IH 43: USH 41 TO STH 54/57 (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	119	0.0	OFF	119	0	0.00	0	66.1	66.1	66.1	
1-2 AM	83	0.0	OFF	83	0	0.00	0	66.2	66.2	66.2	
2-3 AM	93	0.0	OFF	93	0	0.00	0	66.2	66.2	66.2	
3-4 AM	89	0.0	OFF	89	0	0.00	0	66.2	66.2	66.2	
4-5 AM	266	0.0	OFF	266	0	0.00	0	65.9	65.9	65.9	
5-6 AM	730	0.0	OFF	730	0	0.00	0	65.0	65.0	65.0	
6-7 AM	1216	0.0	OFF	1216	0	0.00	0	64.1	64.1	64.1	
7-8 AM	1699	0.0	OFF	1699	0	0.00	0	63.2	63.2	63.2	
8-9 AM	1241	0.0	OFF	1241	0	0.00	0	64.1	64.1	64.1	
9-10 AM	1072	0.0	OFF	1072	0	0.00	0	64.4	64.4	64.4	
10-11 AM	1079	0.0	1500	1079	0	0.53	0	64.4	58.7	41.4	
11AM-NOON	1143	0.0	1500	1143	0	0.56	0	64.3	58.3	40.4	
NOON-1PM	1232	0.0	1500	1232	0	0.68	0	64.1	57.1	37.4	
1-2 PM	1304	0.0	1500	1304	0	0.77	0	64.0	56.1	35.4	
2-3 PM	1446	0.0	1499	1446	0	0.95	0	63.7	54.3	31.9	
3-4 PM	1630	0.0	OFF	1630	0	0.00	0	63.3	63.3	63.3	
4-5 PM	1669	0.0	OFF	1669	0	0.00	0	63.3	63.3	63.3	
5-6 PM	1563	0.0	OFF	1563	0	0.00	0	63.5	63.5	63.5	
6-7 PM	1188	0.0	OFF	1188	0	0.00	0	64.1	64.1	64.1	
7-8 PM	775	0.0	OFF	775	0	0.00	0	65.0	65.0	65.0	
8-9 PM	638	0.0	OFF	638	0	0.00	0	65.2	65.2	65.2	
9-10 PM	571	0.0	OFF	571	0	0.00	0	65.3	65.3	65.3	
10-11 PM	430	0.0	OFF	430	0	0.00	0	65.6	65.6	65.6	
11PM-MID	272	0.0	OFF	272	0	0.00	0	65.9	65.9	65.9	

"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	0.0202
MAIN ROUTE WITH WORKS	0.0198
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$727
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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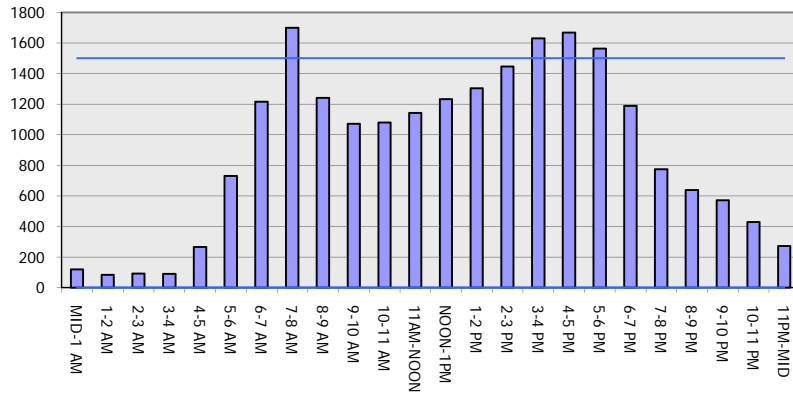
OCTOBER

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Construction Season

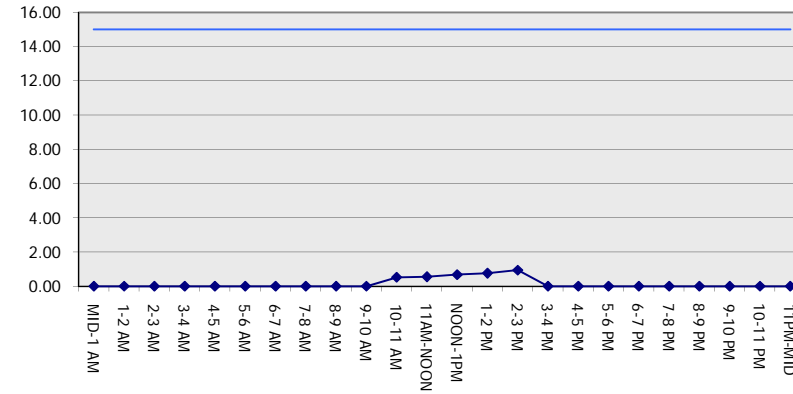
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY SOUTHBOUND DIRECTION

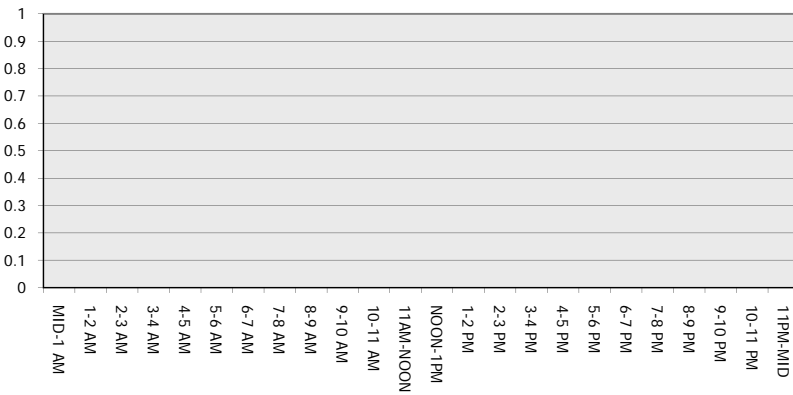
Main Route - Traffic Demand (Vehicles Per Hour)



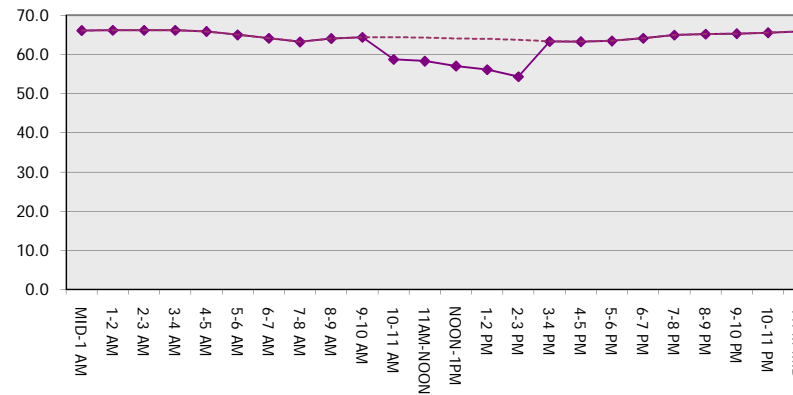
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	135	0.0	OFF	135	0	0.00	0	66.1	66.1	66.1
1-2 AM	101	0.0	OFF	101	0	0.00	0	66.2	66.2	66.2
2-3 AM	100	0.0	OFF	100	0	0.00	0	66.2	66.2	66.2
3-4 AM	110	0.0	OFF	110	0	0.00	0	66.2	66.2	66.2
4-5 AM	211	0.0	OFF	211	0	0.00	0	66.0	66.0	66.0
5-6 AM	512	0.0	OFF	512	0	0.00	0	65.5	65.5	65.5
6-7 AM	1183	0.0	OFF	1183	0	0.00	0	64.2	64.2	64.2
7-8 AM	1497	0.0	OFF	1497	0	0.00	0	63.6	63.6	63.6
8-9 AM	1131	0.0	OFF	1131	0	0.00	0	64.3	64.3	64.3
9-10 AM	1109	0.0	OFF	1109	0	0.00	0	64.3	64.3	64.3
10-11 AM	1226	0.0	1500	1226	0	0.67	0	64.1	57.2	37.6
11AM-NOON	1371	0.0	1499	1371	0	0.86	0	63.8	55.3	33.7
NOON-1PM	1473	0.0	1499	1473	0	0.99	0	63.7	54.0	31.4
1-2 PM	1595	0.0	1500	1595	0	2.23	35	63.4	45.3	30.8
2-3 PM	1873	0.0	1500	1873	0	10.07+	267	62.9	22.5	30.8
3-4 PM	2064	0.0	OFF	2064	0	1.04	56	62.5	52.8	52.8
4-5 PM	2248	0.0	OFF	2248	0	0.00	0	62.2	62.2	62.2
5-6 PM	1977	0.0	OFF	1977	0	0.00	0	62.7	62.7	62.7
6-7 PM	1500	0.0	OFF	1500	0	0.00	0	63.6	63.6	63.6
7-8 PM	960	0.0	OFF	960	0	0.00	0	64.6	64.6	64.6
8-9 PM	757	0.0	OFF	757	0	0.00	0	65.0	65.0	65.0
9-10 PM	650	0.0	OFF	650	0	0.00	0	65.2	65.2	65.2
10-11 PM	530	0.0	OFF	530	0	0.00	0	65.4	65.4	65.4
11PM-MID	320	0.0	OFF	320	0	0.00	0	65.8	65.8	65.8

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

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- 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	0.0231
MAIN ROUTE WITH WORKS	0.0226
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$4,600
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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FRIDAY NORTHBOUND DIRECTION

