

IH 43: STH 54/57 TO STH 172 (BROWN COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	166	0.0	1500	166	0	0.44	0	66.1	60.4	44.8
1-2 AM	110	0.0	1500	110	0	0.43	0	66.2	60.5	45.0
2-3 AM	117	0.0	1500	117	0	0.43	0	66.1	60.5	45.0
3-4 AM	93	0.0	1500	93	0	0.43	0	66.2	60.5	45.1
4-5 AM	159	0.0	1500	159	0	0.44	0	66.1	60.4	44.8
5-6 AM	280	0.0	1500	280	0	0.45	0	65.9	60.1	44.3
6-7 AM	438	0.0	1500	438	0	0.46	0	65.6	59.6	43.7
7-8 AM	740	0.0	1500	740	0	0.49	0	65.0	58.8	42.6
8-9 AM	1025	0.0	1500	1025	0	0.52	0	64.5	58.1	41.6
9-10 AM	1225	0.0	1499	1225	0	0.67	0	64.1	56.2	37.8
10-11 AM	1473	0.0	1499	1473	0	1.07	2	63.7	52.0	31.6
11AM-NOON	1608	0.0	1500	1608	0	3.18	61	63.4	38.2	30.8
NOON-1PM	1563	0.0	1499	1563	0	6.68	153	63.5	26.6	30.8
1-2 PM	1508	0.0	1499	1508	0	8.05	189	63.6	23.8	30.8
2-3 PM	1451	0.0	1499	1451	0	7.15	165	63.7	25.6	30.8
3-4 PM	1509	0.0	1500	1509	0	6.45	146	63.6	27.2	30.8
4-5 PM	1430	0.0	1499	1430	0	5.39	118	63.7	30.1	30.8
5-6 PM	1398	0.0	1500	1398	0	2.19	37	63.8	43.8	31.9
6-7 PM	1246	0.0	1500	1246	0	0.70	0	64.1	55.9	37.0
7-8 PM	1009	0.0	1500	1009	0	0.52	0	64.5	58.1	41.7
8-9 PM	825	0.0	1500	825	0	0.50	0	64.8	58.6	42.3
9-10 PM	609	0.0	1500	609	0	0.48	0	65.3	59.2	43.1
10-11 PM	473	0.0	1500	473	0	0.47	0	65.5	59.6	43.6
11PM-MID	308	0.0	1500	308	0	0.45	0	65.8	60.0	44.3

----- 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	0.0169
MAIN ROUTE WITH WORKS	0.0155
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$17,829
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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CONTINUOUS (24 HOUR) CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

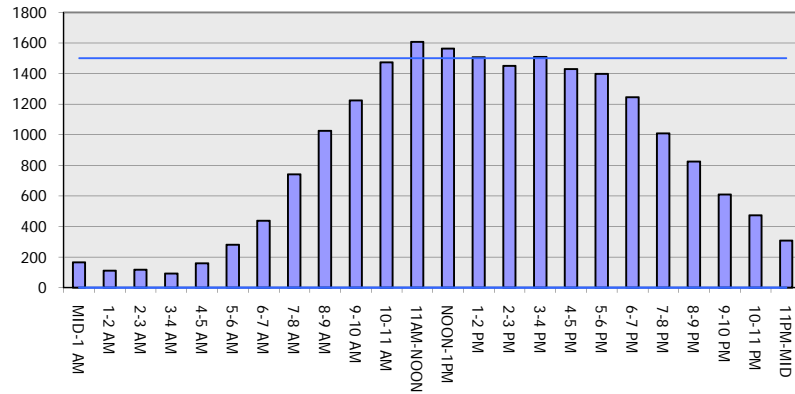
OCTOBER

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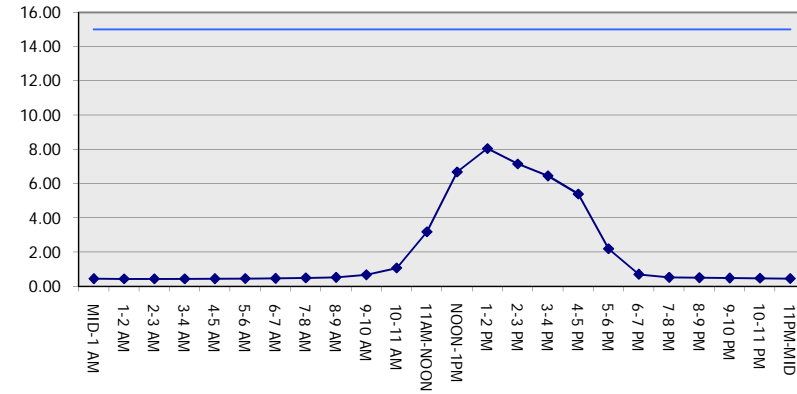
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SATURDAY SOUTHBOUND DIRECTION

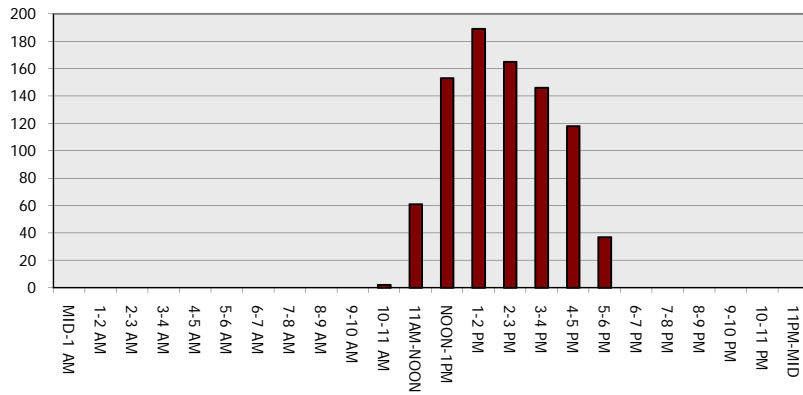
Main Route - Traffic Demand (Vehicles Per Hour)



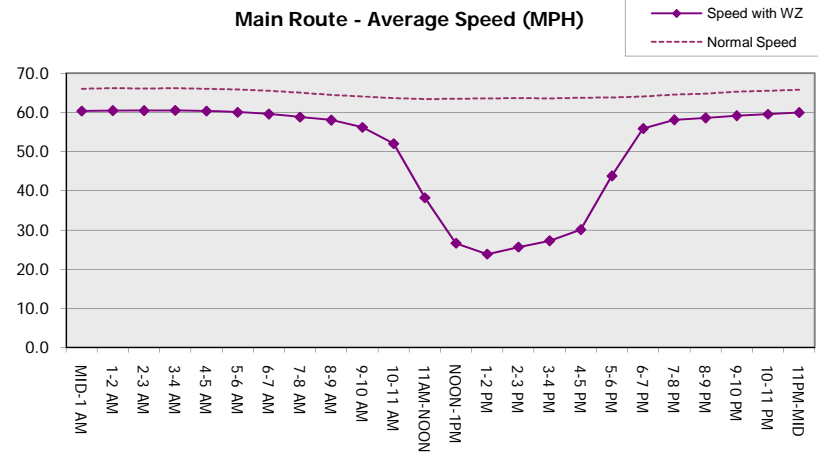
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	278	0.0	1500	278	0	0.45	0	65.9	60.1	44.3
1-2 AM	164	0.0	1500	164	0	0.44	0	66.1	60.4	44.8
2-3 AM	127	0.0	1500	127	0	0.43	0	66.1	60.5	45.0
3-4 AM	96	0.0	1500	96	0	0.43	0	66.2	60.5	45.1
4-5 AM	127	0.0	1500	127	0	0.43	0	66.1	60.5	45.0
5-6 AM	195	0.0	1500	195	0	0.44	0	66.0	60.3	44.7
6-7 AM	369	0.0	1500	369	0	0.46	0	65.7	59.8	44.0
7-8 AM	529	0.0	1500	529	0	0.47	0	65.4	59.4	43.4
8-9 AM	866	0.0	1500	866	0	0.51	0	64.8	58.5	42.2
9-10 AM	1093	0.0	1500	1093	0	0.53	0	64.3	57.9	41.4
10-11 AM	1307	0.0	1500	1307	0	0.77	0	64.0	55.0	35.3
11AM-NOON	1442	0.0	1500	1442	0	0.95	0	63.7	53.2	32.0
NOON-1PM	1458	0.0	1500	1458	0	0.97	0	63.7	53.0	31.7
1-2 PM	1369	0.0	1500	1369	0	0.85	0	63.8	54.2	33.7
2-3 PM	1447	0.0	1500	1447	0	0.96	0	63.7	53.1	31.9
3-4 PM	1387	0.0	1500	1387	0	0.88	0	63.8	53.9	33.3
4-5 PM	1400	0.0	1500	1400	0	0.90	0	63.8	53.7	33.0
5-6 PM	1346	0.0	1500	1346	0	0.82	0	63.9	54.5	34.3
6-7 PM	1150	0.0	1500	1150	0	0.57	0	64.3	57.4	40.1
7-8 PM	857	0.0	1500	857	0	0.51	0	64.8	58.5	42.2
8-9 PM	743	0.0	1500	743	0	0.49	0	65.0	58.8	42.6
9-10 PM	702	0.0	1500	702	0	0.49	0	65.1	58.9	42.7
10-11 PM	603	0.0	1500	603	0	0.48	0	65.3	59.2	43.1
11PM-MID	422	0.0	1500	422	0	0.46	0	65.6	59.7	43.8

----- 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	0.0158
MAIN ROUTE WITH WORKS	0.0145
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$3,867
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY NORTHBOUND DIRECTION

