

IH 43: STH 54/57 TO STH 172 (BROWN COUNTY) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	220	0.0	1500	220	0	0.44	0	66.0	60.2	44.6	
1-2 AM	129	0.0	1500	129	0	0.43	0	66.1	60.5	45.0	
2-3 AM	127	0.0	1500	127	0	0.43	0	66.1	60.5	45.0	
3-4 AM	83	0.0	1500	83	0	0.43	0	66.3	60.6	45.1	
4-5 AM	112	0.0	1500	112	0	0.43	0	66.2	60.5	45.0	
5-6 AM	162	0.0	1500	162	0	0.44	0	66.1	60.4	44.8	
6-7 AM	273	0.0	1500	273	0	0.45	0	65.9	60.1	44.4	
7-8 AM	468	0.0	1500	468	0	0.47	0	65.5	59.6	43.7	
8-9 AM	678	0.0	1500	678	0	0.49	0	65.1	59.0	42.8	
9-10 AM	1082	0.0	1499	1082	0	0.57	0	64.4	57.5	40.2	
10-11 AM	1545	0.0	1499	1545	0	1.56	17	63.5	47.9	31.3	
11AM-NOON	1848	0.0	1500	1848	0	8.57	227	63.0	22.8	30.8	
NOON-1PM	2099	0.0	1499	1500	599	15.77+	399	62.5	14.8	30.8	
1-2 PM	2087	0.0	1500	1500	587	15.77+	400	62.5	14.8	30.8	
2-3 PM	2003	0.0	1500	1500	503	15.78+	400	62.7	14.8	30.8	
3-4 PM	2095	0.0	1500	1500	595	15.77+	400	62.5	14.8	30.8	
4-5 PM	1913	0.0	1500	1500	413	15.79+	400	62.8	14.8	30.8	
5-6 PM	1759	0.0	1500	1500	259	15.82+	400	63.1	14.8	30.8	
6-7 PM	1509	0.0	1499	1450	58	15.47+	389	63.6	15.1	30.8	
7-8 PM	1204	0.0	1499	1204	0	9.06	238	64.1	22.1	32.5	
8-9 PM	947	0.0	1500	947	0	0.68	5	64.6	56.5	41.9	
9-10 PM	551	0.0	1500	551	0	0.48	0	65.3	59.3	43.3	
10-11 PM	341	0.0	1500	341	0	0.46	0	65.8	59.9	44.1	
11PM-MID	187	0.0	1500	187	0	0.44	0	66.0	60.3	44.7	

+ 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

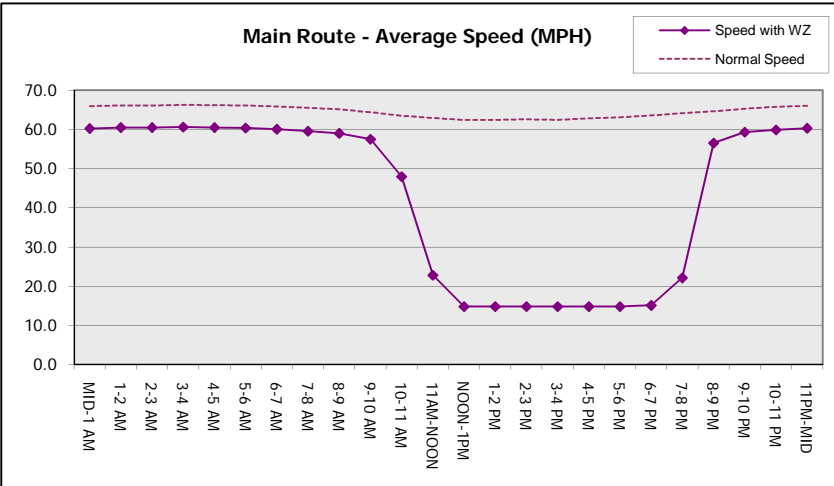
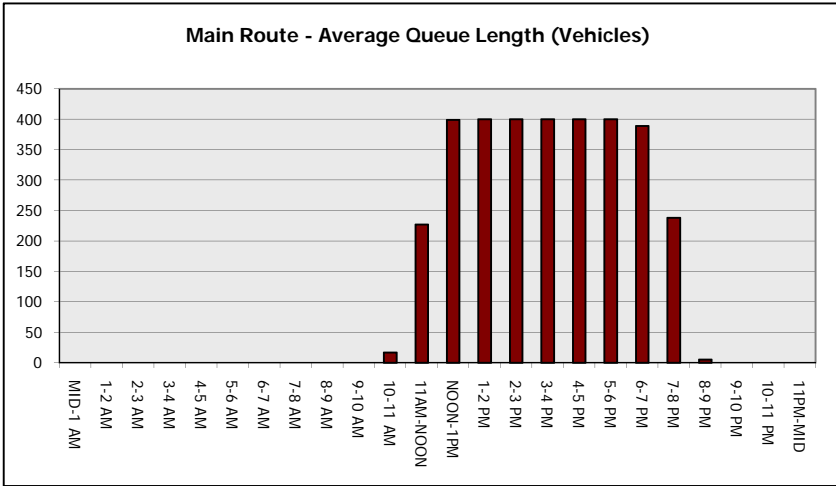
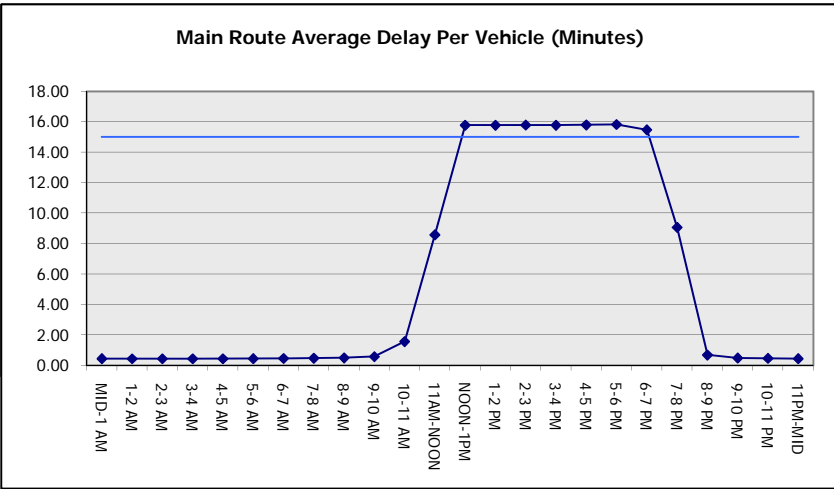
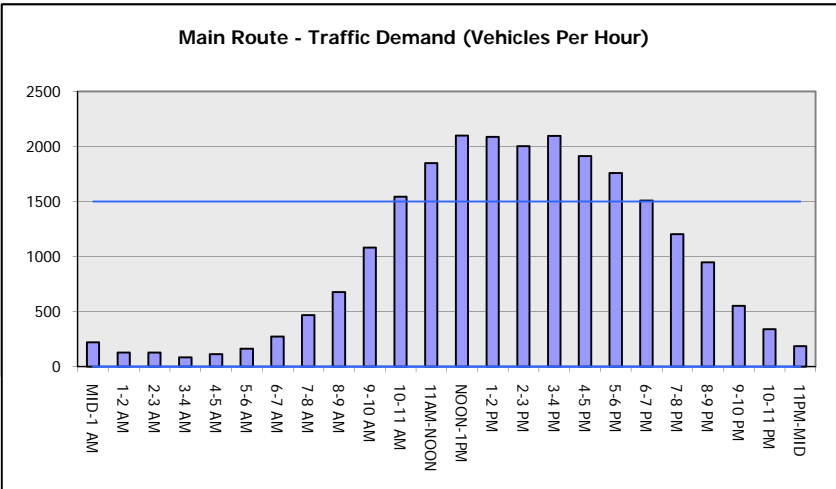
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0190
MAIN ROUTE WITH WORKS	0.0152
'DIVERSION'	0.0057
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$68,679
CONGESTED HOURS PER DAY*	7

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY SOUTHBOUND DIRECTION



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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	261	0.0	1500	261	0	0.45	0	65.9	60.1	44.5
1-2 AM	164	0.0	1500	164	0	0.44	0	66.1	60.4	44.8
2-3 AM	146	0.0	1500	146	0	0.44	0	66.1	60.4	44.9
3-4 AM	82	0.0	1500	82	0	0.43	0	66.3	60.6	45.1
4-5 AM	82	0.0	1500	82	0	0.43	0	66.3	60.6	45.1
5-6 AM	127	0.0	1500	127	0	0.43	0	66.1	60.5	45.0
6-7 AM	199	0.0	1500	199	0	0.44	0	66.0	60.3	44.7
7-8 AM	255	0.0	1500	255	0	0.45	0	65.9	60.1	44.5
8-9 AM	419	0.0	1500	419	0	0.46	0	65.6	59.7	43.8
9-10 AM	671	0.0	1500	671	0	0.49	0	65.1	59.0	42.8
10-11 AM	999	0.0	1500	999	0	0.52	0	64.5	58.2	41.7
11AM-NOON	1228	0.0	1500	1228	0	0.67	0	64.1	56.2	37.6
NOON-1PM	1310	0.0	1500	1310	0	0.78	0	64.0	55.0	35.2
1-2 PM	1314	0.0	1500	1314	0	0.78	0	64.0	55.0	35.1
2-3 PM	1282	0.0	1500	1282	0	0.74	0	64.0	55.4	36.0
3-4 PM	1272	0.0	1500	1272	0	0.73	0	64.0	55.5	36.3
4-5 PM	1243	0.0	1500	1243	0	0.69	0	64.1	56.0	37.1
5-6 PM	1129	0.0	1500	1129	0	0.54	0	64.3	57.7	40.9
6-7 PM	1042	0.0	1500	1042	0	0.52	0	64.5	58.1	41.5
7-8 PM	811	0.0	1500	811	0	0.50	0	64.9	58.6	42.4
8-9 PM	705	0.0	1500	705	0	0.49	0	65.1	58.9	42.7
9-10 PM	534	0.0	1500	534	0	0.47	0	65.4	59.4	43.4
10-11 PM	388	0.0	1500	388	0	0.46	0	65.6	59.7	44.0
11PM-MID	265	0.0	1500	265	0	0.45	0	65.9	60.1	44.4

----- 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	0.0129
MAIN ROUTE WITH WORKS	0.0119
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$2,724
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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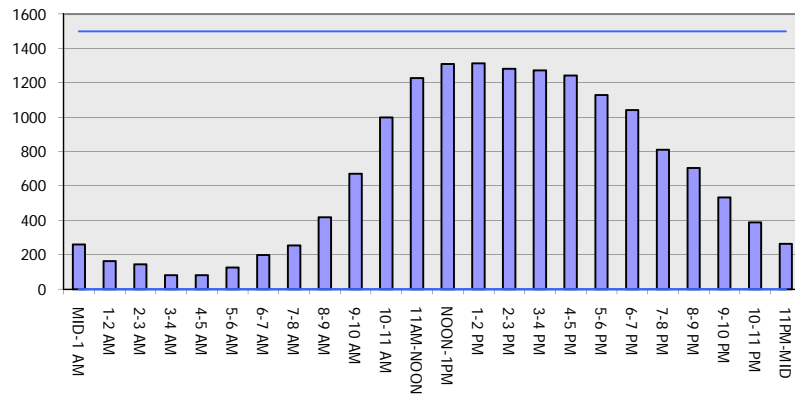
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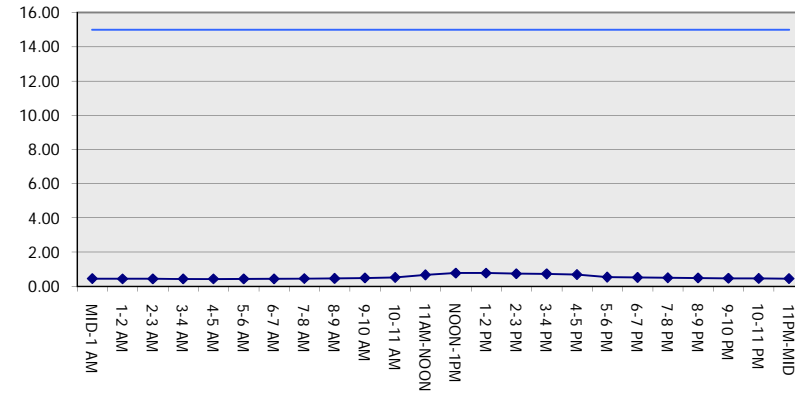
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY NORTHBOUND DIRECTION

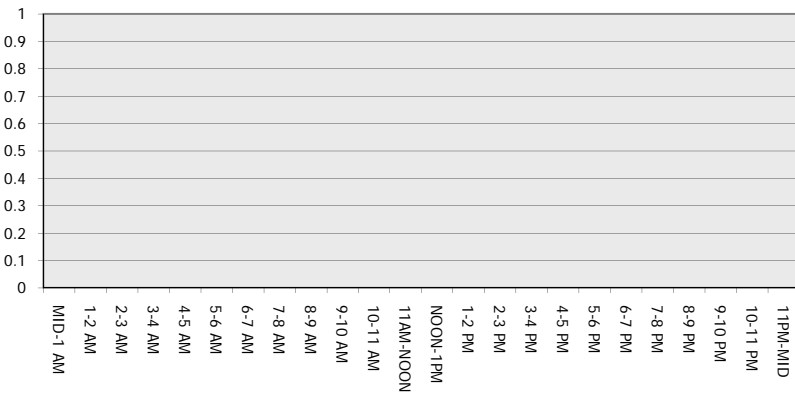
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

