

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

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	118	0.0	1500	118	0	0.43	0	66.1	60.5	45.0
1-2 AM	70	0.0	1500	70	0	0.43	0	66.3	60.6	45.2
2-3 AM	73	0.0	1500	73	0	0.43	0	66.3	60.6	45.2
3-4 AM	105	0.0	1500	105	0	0.43	0	66.2	60.5	45.1
4-5 AM	272	0.0	1500	272	0	0.45	0	65.9	60.1	44.4
5-6 AM	846	0.0	OFF	846	0	0.00	0	64.8	64.8	64.8
6-7 AM	1702	0.0	OFF	1702	0	0.00	0	63.2	63.2	63.2
7-8 AM	2177	0.0	OFF	2177	0	0.00	0	62.3	62.3	62.3
8-9 AM	1483	0.0	OFF	1483	0	0.00	0	63.7	63.7	63.7
9-10 AM	1327	0.0	OFF	1327	0	0.00	0	63.9	63.9	63.9
10-11 AM	1434	0.0	OFF	1434	0	0.00	0	63.7	63.7	63.7
11AM-NOON	1521	0.0	OFF	1521	0	0.00	0	63.5	63.5	63.5
NOON-1PM	1555	0.0	OFF	1555	0	0.00	0	63.5	63.5	63.5
1-2 PM	1574	0.0	OFF	1574	0	0.00	0	63.5	63.5	63.5
2-3 PM	1689	0.0	OFF	1689	0	0.00	0	63.2	63.2	63.2
3-4 PM	1799	0.0	OFF	1799	0	0.00	0	63.0	63.0	63.0
4-5 PM	2039	0.0	OFF	2039	0	0.00	0	62.6	62.6	62.6
5-6 PM	1927	0.0	OFF	1927	0	0.00	0	62.8	62.8	62.8
6-7 PM	1319	0.0	OFF	1319	0	0.00	0	63.9	63.9	63.9
7-8 PM	942	0.0	1500	942	0	0.51	0	64.6	58.3	41.9
8-9 PM	804	0.0	1500	804	0	0.50	0	64.9	58.7	42.4
9-10 PM	581	0.0	1500	581	0	0.48	0	65.3	59.2	43.2
10-11 PM	374	0.0	1500	374	0	0.46	0	65.7	59.8	44.0
11PM-MID	204	0.0	1500	204	0	0.44	0	66.0	60.2	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	0.0211
MAIN ROUTE WITH WORKS	0.0208
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$356
CONGESTED HOURS PER DAY*	0

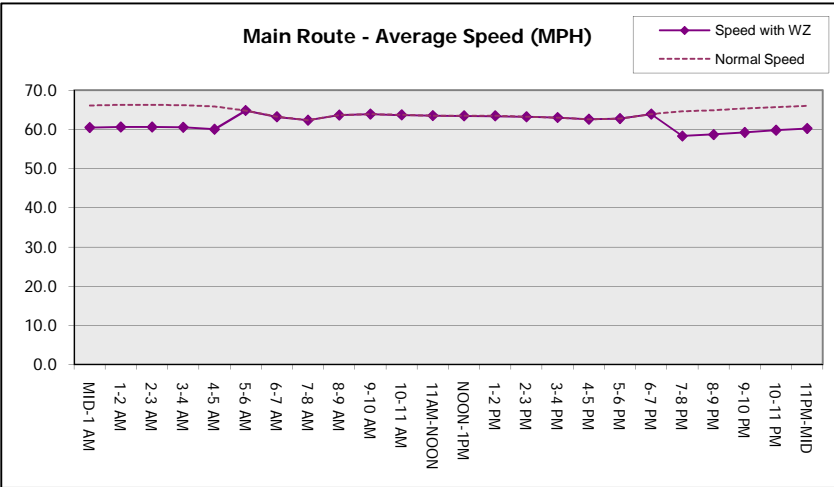
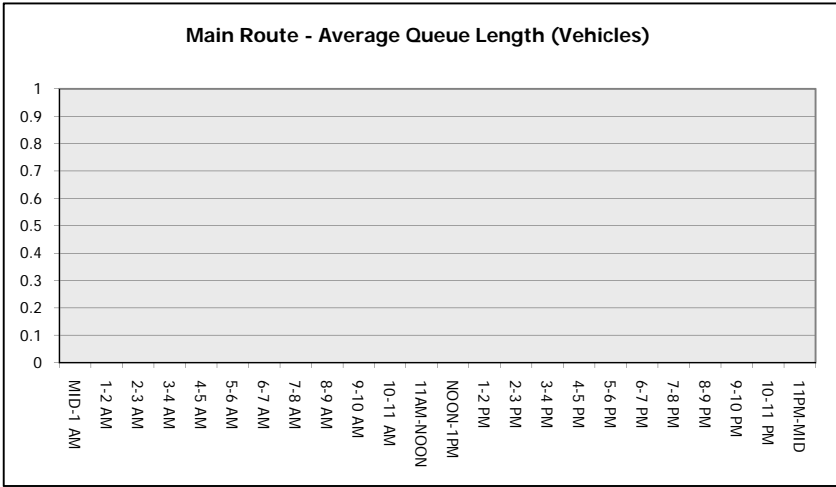
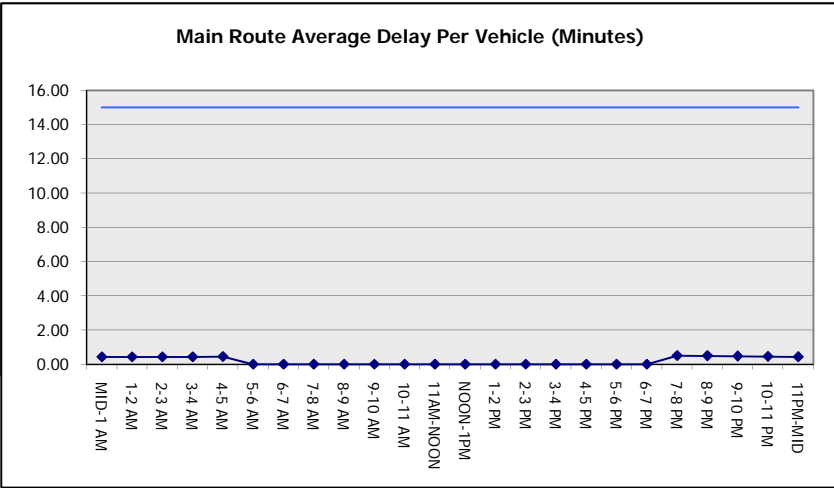
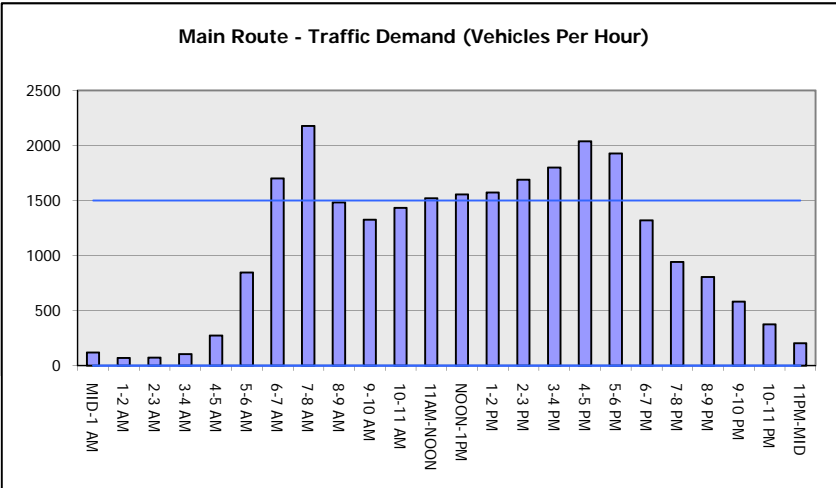
*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE
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AUGUST
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Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR SOUTHBOUND DIRECTION



IH 43: STH 54/57 TO STH 172 (BROWN COUNTY) NIGHTTIME CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	171	0.0	1500	171	0	0.44	0	66.1	60.4	44.8
1-2 AM	104	0.0	1500	104	0	0.43	0	66.2	60.5	45.1
2-3 AM	84	0.0	1500	84	0	0.43	0	66.2	60.6	45.1
3-4 AM	74	0.0	1500	74	0	0.43	0	66.3	60.6	45.2
4-5 AM	143	0.0	1500	143	0	0.44	0	66.1	60.4	44.9
5-6 AM	430	0.0	OFF	430	0	0.00	0	65.6	65.6	65.6
6-7 AM	935	0.0	OFF	935	0	0.00	0	64.6	64.6	64.6
7-8 AM	1373	0.0	OFF	1373	0	0.00	0	63.8	63.8	63.8
8-9 AM	1158	0.0	OFF	1158	0	0.00	0	64.2	64.2	64.2
9-10 AM	1094	0.0	OFF	1094	0	0.00	0	64.3	64.3	64.3
10-11 AM	1174	0.0	OFF	1174	0	0.00	0	64.2	64.2	64.2
11AM-NOON	1261	0.0	OFF	1261	0	0.00	0	64.0	64.0	64.0
NOON-1PM	1373	0.0	OFF	1373	0	0.00	0	63.8	63.8	63.8
1-2 PM	1401	0.0	OFF	1401	0	0.00	0	63.8	63.8	63.8
2-3 PM	1557	0.0	OFF	1557	0	0.00	0	63.5	63.5	63.5
3-4 PM	1917	0.0	OFF	1917	0	0.00	0	62.8	62.8	62.8
4-5 PM	2430	0.0	OFF	2430	0	0.00	0	61.6	61.6	61.6
5-6 PM	2279	0.0	OFF	2279	0	0.00	0	62.2	62.2	62.2
6-7 PM	1436	0.0	OFF	1436	0	0.00	0	63.7	63.7	63.7
7-8 PM	1011	0.0	1500	1011	0	0.52	0	64.5	58.1	41.7
8-9 PM	940	0.0	1500	940	0	0.51	0	64.6	58.3	41.9
9-10 PM	747	0.0	1500	747	0	0.49	0	65.0	58.8	42.6
10-11 PM	500	0.0	1500	500	0	0.47	0	65.5	59.5	43.5
11PM-MID	341	0.0	1500	341	0	0.46	0	65.8	59.9	44.1

"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	0.0194
MAIN ROUTE WITH WORKS	0.0192
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$421
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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AUGUST

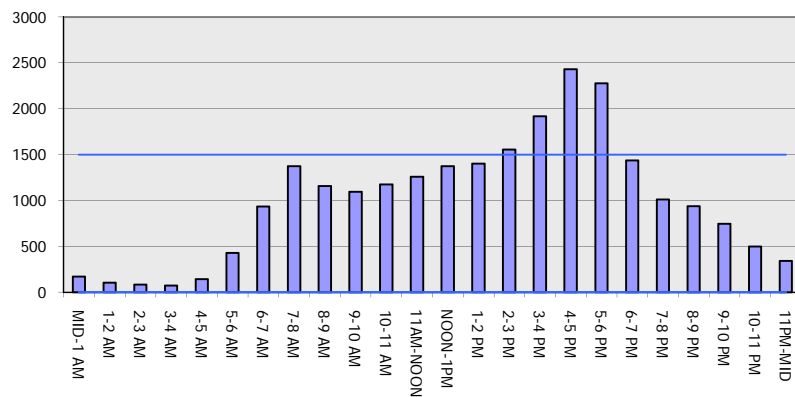
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

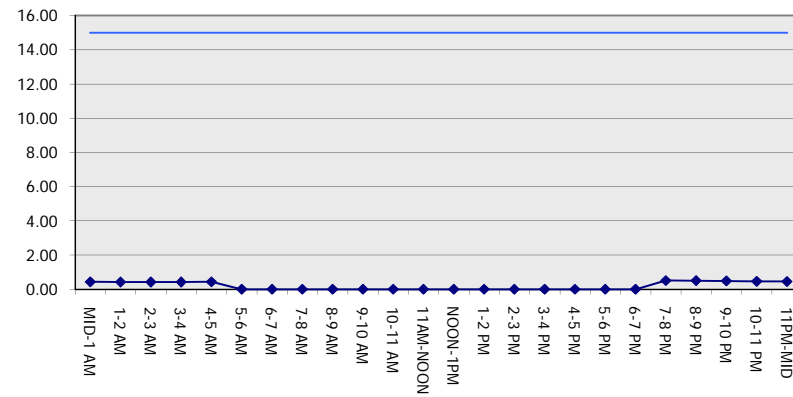
MON-THUR

NORTHBOUND DIRECTION

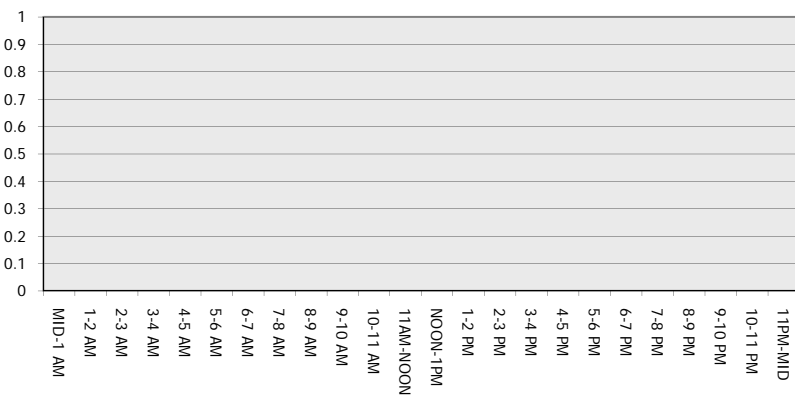
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

