

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

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY WESTBOUND 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	133	0.0	1500	133	0	0.44	0	66.1	58.1	45.0
1-2 AM	98	0.0	1500	98	0	0.43	0	66.2	58.2	45.1
2-3 AM	92	0.0	1500	92	0	0.43	0	66.2	58.2	45.1
3-4 AM	118	0.0	1500	118	0	0.43	0	66.1	58.2	45.0
4-5 AM	356	0.0	1500	356	0	0.46	0	65.7	57.5	44.1
5-6 AM	1051	0.0	OFF	1051	0	0.00	0	64.4	64.4	64.4
6-7 AM	2127	0.0	OFF	2127	0	0.00	0	62.4	62.4	62.4
7-8 AM	3147	0.0	OFF	3147	0	0.00	0	54.3	54.3	54.3
8-9 AM	2007	0.0	OFF	2007	0	0.00	0	62.7	62.7	62.7
9-10 AM	1544	0.0	OFF	1544	0	0.00	0	63.5	63.5	63.5
10-11 AM	1712	0.0	OFF	1712	0	0.00	0	63.2	63.2	63.2
11AM-NOON	1796	0.0	OFF	1796	0	0.00	0	63.0	63.0	63.0
NOON-1PM	1874	0.0	OFF	1874	0	0.00	0	62.9	62.9	62.9
1-2 PM	1940	0.0	OFF	1940	0	0.00	0	62.8	62.8	62.8
2-3 PM	2071	0.0	OFF	2071	0	0.00	0	62.5	62.5	62.5
3-4 PM	2218	0.0	OFF	2218	0	0.00	0	62.2	62.2	62.2
4-5 PM	2445	0.0	OFF	2445	0	0.00	0	61.5	61.5	61.5
5-6 PM	2491	0.0	OFF	2491	0	0.00	0	61.0	61.0	61.0
6-7 PM	2001	0.0	OFF	2001	0	0.00	0	62.7	62.7	62.7
7-8 PM	1160	0.0	1500	1160	0	0.59	0	64.2	54.5	39.7
8-9 PM	883	0.0	1500	883	0	0.51	0	64.8	56.0	42.1
9-10 PM	813	0.0	1500	813	0	0.50	0	64.9	56.1	42.4
10-11 PM	577	0.0	1500	577	0	0.48	0	65.3	56.8	43.2
11PM-MID	345	0.0	1500	345	0	0.46	0	65.8	57.5	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	0.0184
MAIN ROUTE WITH WORKS	0.0181
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$510
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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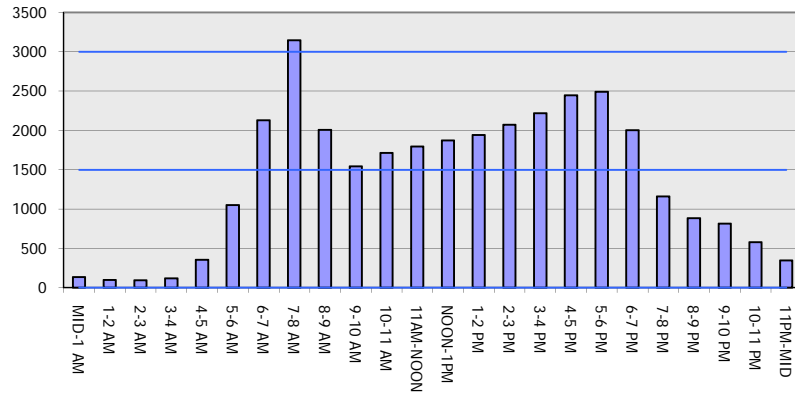
OCTOBER

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Construction Season

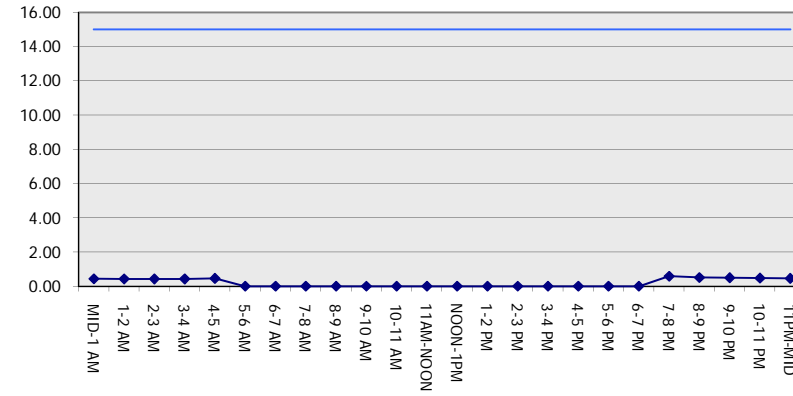
GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

FRIDAY WESTBOUND DIRECTION

Main Route - Traffic Demand (Vehicles Per Hour)



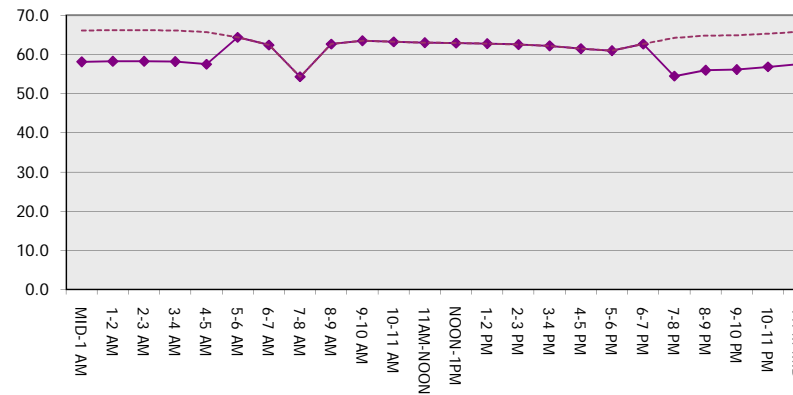
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY EASTBOUND 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	209	0.0	1500	209	0	0.44	0	66.0	57.9	44.6
1-2 AM	180	0.0	1500	180	0	0.44	0	66.1	58.0	44.8
2-3 AM	142	0.0	1500	142	0	0.44	0	66.1	58.1	44.9
3-4 AM	114	0.0	1500	114	0	0.43	0	66.2	58.2	45.0
4-5 AM	184	0.0	1500	184	0	0.44	0	66.0	58.0	44.8
5-6 AM	471	0.0	OFF	471	0	0.00	0	65.5	65.5	65.5
6-7 AM	1163	0.0	OFF	1163	0	0.00	0	64.2	64.2	64.2
7-8 AM	1577	0.0	OFF	1577	0	0.00	0	63.5	63.5	63.5
8-9 AM	1481	0.0	OFF	1481	0	0.00	0	63.7	63.7	63.7
9-10 AM	1274	0.0	OFF	1274	0	0.00	0	64.0	64.0	64.0
10-11 AM	1492	0.0	OFF	1492	0	0.00	0	63.6	63.6	63.6
11AM-NOON	1709	0.0	OFF	1709	0	0.00	0	63.2	63.2	63.2
NOON-1PM	2014	0.0	OFF	2014	0	0.00	0	62.7	62.7	62.7
1-2 PM	2053	0.0	OFF	2053	0	0.00	0	62.5	62.5	62.5
2-3 PM	2282	0.0	OFF	2282	0	0.00	0	62.2	62.2	62.2
3-4 PM	2995	0.0	OFF	2995	0	0.00	0	55.8	55.8	55.8
4-5 PM	3478	0.0	OFF	3478	0	0.00	0	50.9	50.9	50.9
5-6 PM	2949	0.0	OFF	2949	0	0.00	0	56.3	56.3	56.3
6-7 PM	2036	0.0	OFF	2036	0	0.00	0	62.6	62.6	62.6
7-8 PM	1341	0.0	1500	1341	0	0.82	0	63.9	51.1	34.4
8-9 PM	1146	0.0	1500	1146	0	0.57	0	64.3	54.8	40.2
9-10 PM	1232	0.0	1500	1232	0	0.68	0	64.1	53.1	37.4
10-11 PM	798	0.0	1500	798	0	0.50	0	64.9	56.2	42.4
11PM-MID	562	0.0	1500	562	0	0.48	0	65.3	56.9	43.3

"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	0.0183
MAIN ROUTE WITH WORKS	0.0179
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$793
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION**

