

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

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                      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	157	0.0	1500	157	0	0.44	0	66.1	58.1	44.8
1-2 AM	99	0.0	1500	99	0	0.43	0	66.2	58.2	45.1
2-3 AM	93	0.0	1500	93	0	0.43	0	66.2	58.2	45.1
3-4 AM	122	0.0	1500	122	0	0.43	0	66.1	58.2	45.0
4-5 AM	352	0.0	1500	352	0	0.46	0	65.7	57.5	44.1
5-6 AM	1146	0.0	OFF	1146	0	0.00	0	64.3	64.3	64.3
6-7 AM	2299	0.0	OFF	2299	0	0.00	0	62.1	62.1	62.1
7-8 AM	3128	0.0	OFF	3128	0	0.00	0	54.5	54.5	54.5
8-9 AM	1967	0.0	OFF	1967	0	0.00	0	62.7	62.7	62.7
9-10 AM	1653	0.0	OFF	1653	0	0.00	0	63.3	63.3	63.3
10-11 AM	1708	0.0	OFF	1708	0	0.00	0	63.2	63.2	63.2
11AM-NOON	1832	0.0	OFF	1832	0	0.00	0	63.0	63.0	63.0
NOON-1PM	1887	0.0	OFF	1887	0	0.00	0	62.8	62.8	62.8
1-2 PM	1876	0.0	OFF	1876	0	0.00	0	62.9	62.9	62.9
2-3 PM	1958	0.0	OFF	1958	0	0.00	0	62.7	62.7	62.7
3-4 PM	2017	0.0	OFF	2017	0	0.00	0	62.7	62.7	62.7
4-5 PM	2253	0.0	OFF	2253	0	0.00	0	62.2	62.2	62.2
5-6 PM	2309	0.0	OFF	2309	0	0.00	0	62.1	62.1	62.1
6-7 PM	1566	0.0	OFF	1566	0	0.00	0	63.5	63.5	63.5
7-8 PM	1091	0.0	1500	1091	0	0.53	0	64.3	55.4	41.4
8-9 PM	877	0.0	1500	877	0	0.51	0	64.8	56.0	42.1
9-10 PM	660	0.0	1500	660	0	0.49	0	65.1	56.6	42.9
10-11 PM	465	0.0	1500	465	0	0.47	0	65.5	57.2	43.7
11PM-MID	279	0.0	1500	279	0	0.45	0	65.9	57.7	44.3

"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	0.0177
MAIN ROUTE WITH WORKS	0.0174
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$435
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding User-Specified Maximum

**STH 172: STH 57 TO IH 43 (BROWN COUNTY)  
NIGHTTIME CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**

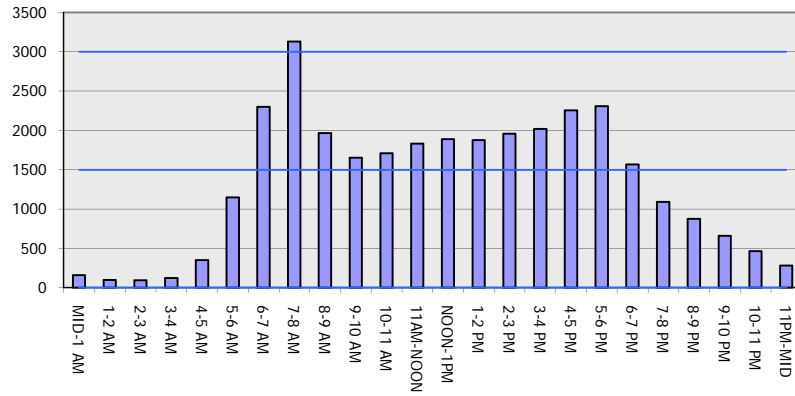
Analyzed for 2009  
Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

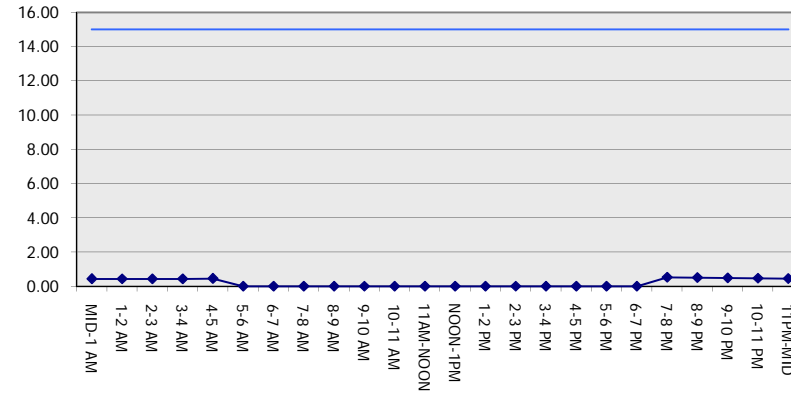
**MON-THUR**

**WESTBOUND DIRECTION**

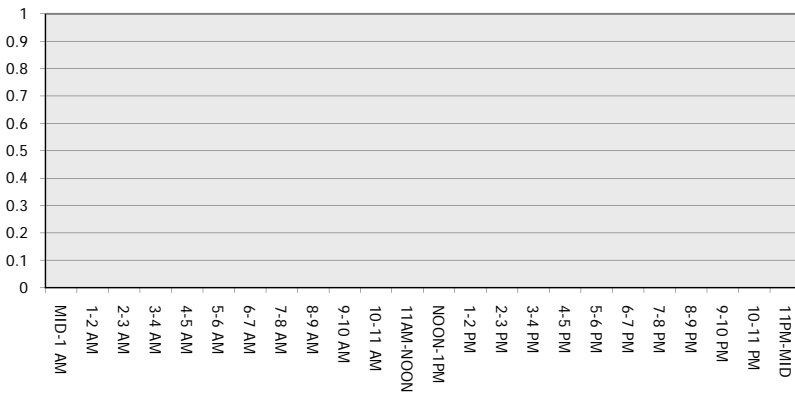
**Main Route - Traffic Demand (Vehicles Per Hour)**



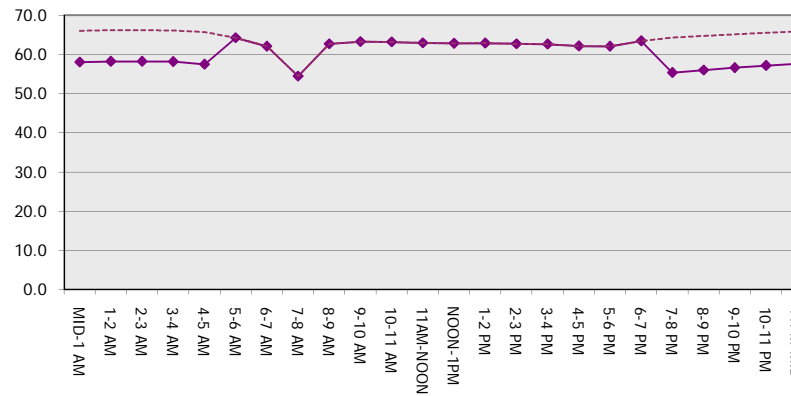
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



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

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                      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	212	0.0	1500	212	0	0.44	0	66.0	57.9	44.6
1-2 AM	136	0.0	1500	136	0	0.44	0	66.1	58.1	45.0
2-3 AM	128	0.0	1500	128	0	0.43	0	66.1	58.2	45.0
3-4 AM	125	0.0	1500	125	0	0.43	0	66.1	58.2	45.0
4-5 AM	209	0.0	1500	209	0	0.44	0	66.0	57.9	44.6
5-6 AM	536	0.0	OFF	536	0	0.00	0	65.4	65.4	65.4
6-7 AM	1180	0.0	OFF	1180	0	0.00	0	64.2	64.2	64.2
7-8 AM	1622	0.0	OFF	1622	0	0.00	0	63.3	63.3	63.3
8-9 AM	1429	0.0	OFF	1429	0	0.00	0	63.7	63.7	63.7
9-10 AM	1396	0.0	OFF	1396	0	0.00	0	63.8	63.8	63.8
10-11 AM	1495	0.0	OFF	1495	0	0.00	0	63.6	63.6	63.6
11AM-NOON	1671	0.0	OFF	1671	0	0.00	0	63.3	63.3	63.3
NOON-1PM	1810	0.0	OFF	1810	0	0.00	0	63.0	63.0	63.0
1-2 PM	1843	0.0	OFF	1843	0	0.00	0	63.0	63.0	63.0
2-3 PM	2173	0.0	OFF	2173	0	0.00	0	62.3	62.3	62.3
3-4 PM	2723	0.0	OFF	2723	0	0.00	0	58.6	58.6	58.6
4-5 PM	3472	0.0	OFF	3472	0	0.00	0	50.9	50.9	50.9
5-6 PM	3106	0.0	OFF	3106	0	0.00	0	54.7	54.7	54.7
6-7 PM	1901	0.0	OFF	1901	0	0.00	0	62.8	62.8	62.8
7-8 PM	1343	0.0	1500	1343	0	0.82	0	63.9	51.1	34.3
8-9 PM	1219	0.0	1500	1219	0	0.66	0	64.1	53.3	37.9
9-10 PM	980	0.0	1500	980	0	0.52	0	64.6	55.7	41.7
10-11 PM	689	0.0	1500	689	0	0.49	0	65.1	56.5	42.8
11PM-MID	424	0.0	1500	424	0	0.46	0	65.6	57.3	43.8

"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	0.0177
MAIN ROUTE WITH WORKS	0.0174
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$698
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding User-Specified Maximum

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NIGHTTIME CLOSURE  
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**AUGUST**  
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Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR EASTBOUND DIRECTION**

