

STH 172: STH 57 TO IH 43 (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	109	0.0	OFF	109	0	0.00	0	66.2	66.2	66.2	
1-2 AM	71	0.0	OFF	71	0	0.00	0	66.3	66.3	66.3	
2-3 AM	72	0.0	OFF	72	0	0.00	0	66.3	66.3	66.3	
3-4 AM	108	0.0	OFF	108	0	0.00	0	66.2	66.2	66.2	
4-5 AM	352	0.0	OFF	352	0	0.00	0	65.7	65.7	65.7	
5-6 AM	1127	0.0	OFF	1127	0	0.00	0	64.3	64.3	64.3	
6-7 AM	2309	0.0	OFF	2309	0	0.00	0	62.1	62.1	62.1	
7-8 AM	3345	0.0	OFF	3345	0	0.00	0	52.2	52.2	52.2	
8-9 AM	1981	0.0	OFF	1981	0	0.00	0	62.7	62.7	62.7	
9-10 AM	1545	0.0	OFF	1545	0	0.00	0	63.5	63.5	63.5	
10-11 AM	1563	0.0	1499	1563	0	2.05	29	63.5	39.2	30.8	
11AM-NOON	1607	0.0	1500	1607	0	5.00	110	63.4	25.3	30.8	
NOON-1PM	1727	0.0	1500	1727	0	10.99	279	63.2	14.7	30.8	
1-2 PM	1727	0.0	1499	1500	227	15.83+	400	63.2	10.9	30.8	
2-3 PM	1851	0.0	1500	1500	351	15.82+	400	62.9	10.9	30.8	
3-4 PM	2007	0.0	OFF	2007	0	0.63	39	62.7	52.7	52.7	
4-5 PM	2214	0.0	OFF	2214	0	0.00	0	62.3	62.3	62.3	
5-6 PM	2180	0.0	OFF	2180	0	0.00	0	62.3	62.3	62.3	
6-7 PM	1439	0.0	OFF	1439	0	0.00	0	63.7	63.7	63.7	
7-8 PM	883	0.0	OFF	883	0	0.00	0	64.8	64.8	64.8	
8-9 PM	671	0.0	OFF	671	0	0.00	0	65.1	65.1	65.1	
9-10 PM	530	0.0	OFF	530	0	0.00	0	65.4	65.4	65.4	
10-11 PM	367	0.0	OFF	367	0	0.00	0	65.7	65.7	65.7	
11PM-MID	208	0.0	OFF	208	0	0.00	0	66.0	66.0	66.0	

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0167
MAIN ROUTE WITH WORKS	0.0159
'DIVERSION'	0.0007
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$17,641
CONGESTED HOURS PER DAY*	2

*Delays Exceeding User-Specified Maximum

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OCTOBER

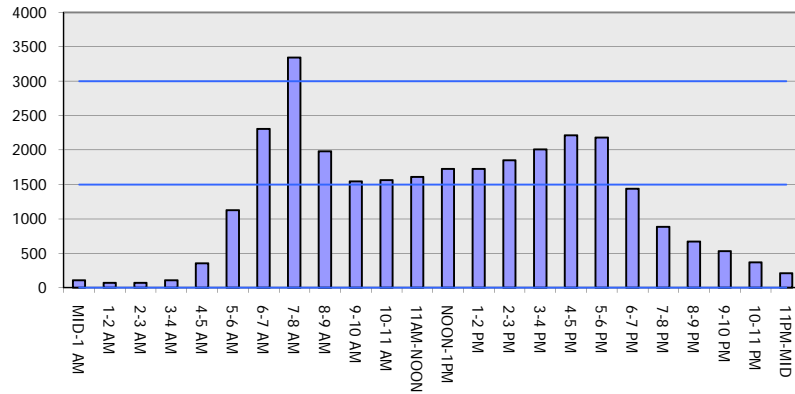
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

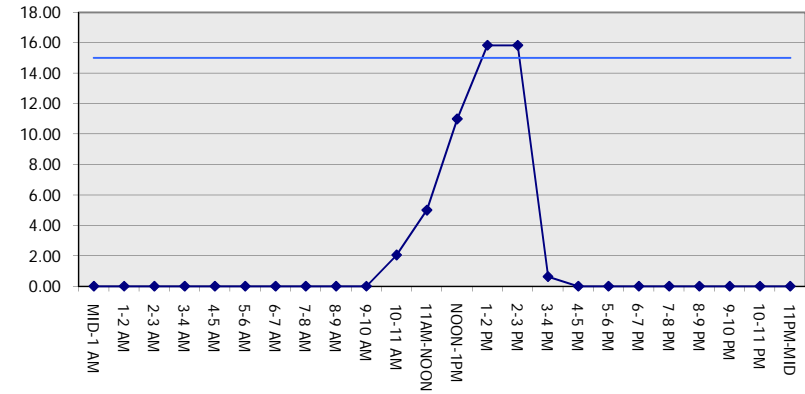
MON-THUR

WESTBOUND DIRECTION

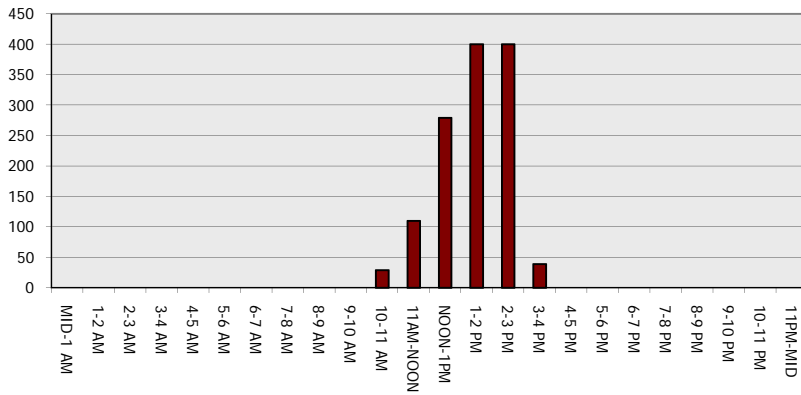
Main Route - Traffic Demand (Vehicles Per Hour)



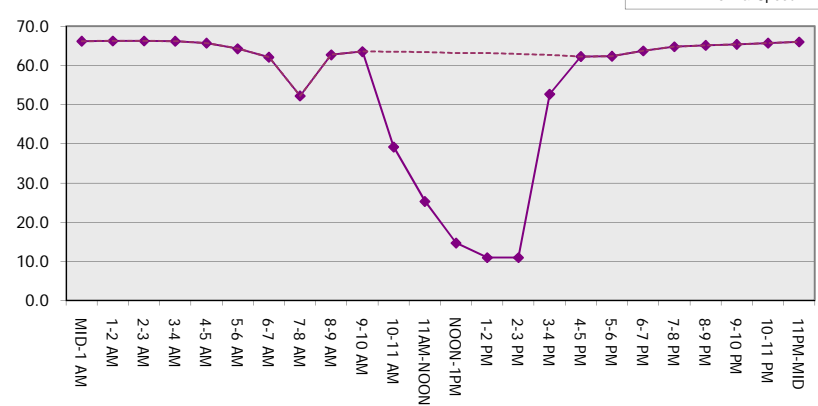
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



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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	179	0.0	OFF	179	0	0.00	0	66.1	66.1	66.1
1-2 AM	113	0.0	OFF	113	0	0.00	0	66.2	66.2	66.2
2-3 AM	111	0.0	OFF	111	0	0.00	0	66.2	66.2	66.2
3-4 AM	122	0.0	OFF	122	0	0.00	0	66.1	66.1	66.1
4-5 AM	210	0.0	OFF	210	0	0.00	0	66.0	66.0	66.0
5-6 AM	538	0.0	OFF	538	0	0.00	0	65.4	65.4	65.4
6-7 AM	1141	0.0	OFF	1141	0	0.00	0	64.3	64.3	64.3
7-8 AM	1591	0.0	OFF	1591	0	0.00	0	63.4	63.4	63.4
8-9 AM	1470	0.0	OFF	1470	0	0.00	0	63.7	63.7	63.7
9-10 AM	1277	0.0	OFF	1277	0	0.00	0	64.0	64.0	64.0
10-11 AM	1297	0.0	1500	1297	0	0.76	0	64.0	51.9	35.6
11AM-NOON	1445	0.0	1499	1445	0	0.95	0	63.7	49.4	32.0
NOON-1PM	1618	0.0	1499	1618	0	2.75	52	63.3	34.7	30.8
1-2 PM	1673	0.0	1499	1673	0	7.98	194	63.3	18.6	30.8
2-3 PM	1924	0.0	1500	1651	273	15.11+	383	62.8	11.4	30.8
3-4 PM	2652	0.0	OFF	2652	0	1.38	72	59.3	42.7	42.7
4-5 PM	3265	0.0	OFF	3265	0	0.00	0	53.0	53.0	53.0
5-6 PM	2845	0.0	OFF	2845	0	0.00	0	57.4	57.4	57.4
6-7 PM	1745	0.0	OFF	1745	0	0.00	0	63.2	63.2	63.2
7-8 PM	1234	0.0	OFF	1234	0	0.00	0	64.1	64.1	64.1
8-9 PM	1036	0.0	OFF	1036	0	0.00	0	64.5	64.5	64.5
9-10 PM	969	0.0	OFF	969	0	0.00	0	64.6	64.6	64.6
10-11 PM	578	0.0	OFF	578	0	0.00	0	65.3	65.3	65.3
11PM-MID	400	0.0	OFF	400	0	0.00	0	65.6	65.6	65.6

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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	0.0164
MAIN ROUTE WITH WORKS	0.0157
'DIVERSION'	0.0004

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$10,590
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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

