

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

SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	218	0.0	1500	218	0	0.44	0	66.0	57.9	44.6	
1-2 AM	120	0.0	1500	120	0	0.43	0	66.1	58.2	45.0	
2-3 AM	111	0.0	1500	111	0	0.43	0	66.2	58.2	45.0	
3-4 AM	95	0.0	1500	95	0	0.43	0	66.2	58.2	45.1	
4-5 AM	168	0.0	1500	168	0	0.44	0	66.1	58.1	44.8	
5-6 AM	344	0.0	1500	344	0	0.46	0	65.8	57.5	44.1	
6-7 AM	565	0.0	1500	565	0	0.48	0	65.3	56.9	43.3	
7-8 AM	883	0.0	1500	883	0	0.51	0	64.8	56.0	42.1	
8-9 AM	1275	0.0	OFF	1275	0	0.00	0	64.0	64.0	64.0	
9-10 AM	1510	0.0	OFF	1510	0	0.00	0	63.6	63.6	63.6	
10-11 AM	1712	0.0	OFF	1712	0	0.00	0	63.2	63.2	63.2	
11AM-NOON	1866	0.0	OFF	1866	0	0.00	0	62.9	62.9	62.9	
NOON-1PM	1870	0.0	OFF	1870	0	0.00	0	62.9	62.9	62.9	
1-2 PM	1754	0.0	OFF	1754	0	0.00	0	63.1	63.1	63.1	
2-3 PM	1718	0.0	OFF	1718	0	0.00	0	63.2	63.2	63.2	
3-4 PM	1697	0.0	OFF	1697	0	0.00	0	63.2	63.2	63.2	
4-5 PM	1632	0.0	OFF	1632	0	0.00	0	63.3	63.3	63.3	
5-6 PM	1534	0.0	OFF	1534	0	0.00	0	63.5	63.5	63.5	
6-7 PM	1159	0.0	1500	1159	0	0.58	0	64.2	54.5	39.8	
7-8 PM	970	0.0	1500	970	0	0.52	0	64.6	55.7	41.8	
8-9 PM	803	0.0	1500	803	0	0.50	0	64.9	56.2	42.4	
9-10 PM	680	0.0	1500	680	0	0.49	0	65.1	56.6	42.8	
10-11 PM	471	0.0	1500	471	0	0.47	0	65.5	57.1	43.6	
11PM-MID	429	0.0	1500	429	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

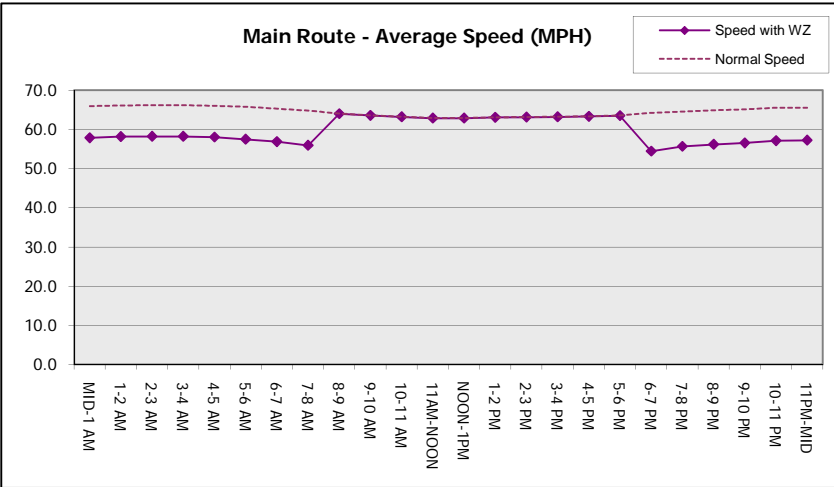
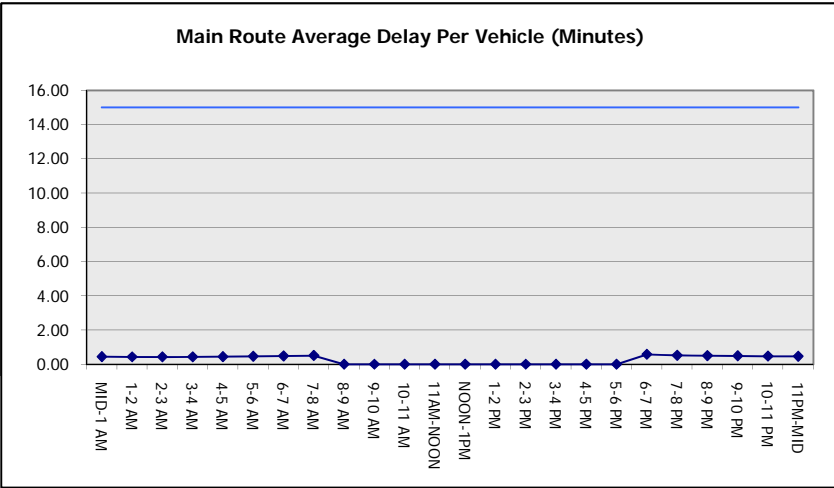
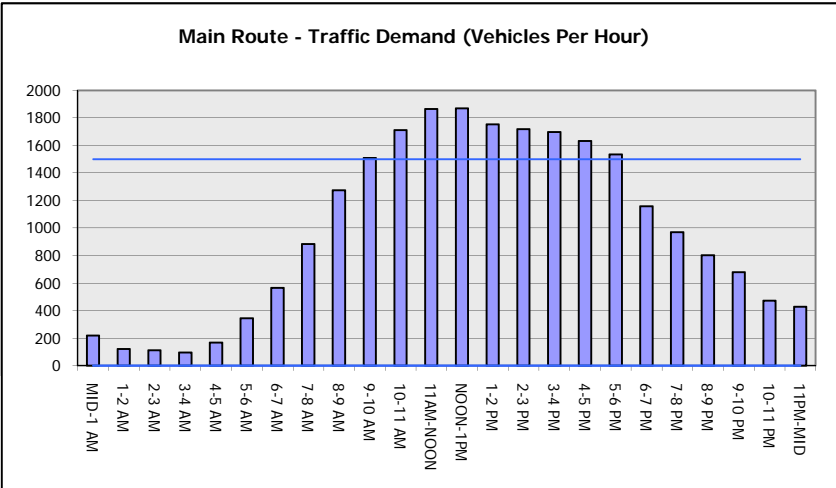
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0131
MAIN ROUTE WITH WORKS	0.0127
'DIVERSION'	0.0000
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$838
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

SATURDAY 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	332	0.0	1500	332	0	0.45	0	65.8	57.6	44.2
1-2 AM	204	0.0	1500	204	0	0.44	0	66.0	57.9	44.6
2-3 AM	194	0.0	1500	194	0	0.44	0	66.0	58.0	44.7
3-4 AM	125	0.0	1500	125	0	0.43	0	66.1	58.2	45.0
4-5 AM	139	0.0	1500	139	0	0.44	0	66.1	58.1	45.0
5-6 AM	231	0.0	1500	231	0	0.44	0	66.0	57.9	44.6
6-7 AM	481	0.0	1500	481	0	0.47	0	65.5	57.1	43.6
7-8 AM	952	0.0	1500	952	0	0.51	0	64.6	55.8	41.9
8-9 AM	1112	0.0	OFF	1112	0	0.00	0	64.3	64.3	64.3
9-10 AM	1207	0.0	OFF	1207	0	0.00	0	64.1	64.1	64.1
10-11 AM	1384	0.0	OFF	1384	0	0.00	0	63.8	63.8	63.8
11AM-NOON	1585	0.0	OFF	1585	0	0.00	0	63.4	63.4	63.4
NOON-1PM	1684	0.0	OFF	1684	0	0.00	0	63.2	63.2	63.2
1-2 PM	1758	0.0	OFF	1758	0	0.00	0	63.1	63.1	63.1
2-3 PM	1932	0.0	OFF	1932	0	0.00	0	62.8	62.8	62.8
3-4 PM	1818	0.0	OFF	1818	0	0.00	0	63.0	63.0	63.0
4-5 PM	1652	0.0	OFF	1652	0	0.00	0	63.3	63.3	63.3
5-6 PM	1548	0.0	OFF	1548	0	0.00	0	63.5	63.5	63.5
6-7 PM	1352	0.0	1500	1352	0	0.83	0	63.8	50.9	34.2
7-8 PM	1108	0.0	1500	1108	0	0.53	0	64.3	55.3	41.3
8-9 PM	1009	0.0	1500	1009	0	0.52	0	64.5	55.6	41.7
9-10 PM	862	0.0	1500	862	0	0.51	0	64.8	56.0	42.2
10-11 PM	615	0.0	1500	615	0	0.48	0	65.3	56.8	43.1
11PM-MID	505	0.0	1500	505	0	0.47	0	65.5	57.1	43.5

"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	0.0132
MAIN ROUTE WITH WORKS	0.0127
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$1,062
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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SATURDAY EASTBOUND DIRECTION

