

STH 172: STH 57 TO IH 43 (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
	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	112	0.0	OFF	112	0	0.00	0	66.2	66.2	66.2	
1-2 AM	109	0.0	OFF	109	0	0.00	0	66.2	66.2	66.2	
2-3 AM	128	0.0	OFF	128	0	0.00	0	66.1	66.1	66.1	
3-4 AM	120	0.0	OFF	120	0	0.00	0	66.1	66.1	66.1	
4-5 AM	349	0.0	OFF	349	0	0.00	0	65.8	65.8	65.8	
5-6 AM	1026	0.0	OFF	1026	0	0.00	0	64.5	64.5	64.5	
6-7 AM	2219	0.0	OFF	2219	0	0.00	0	62.2	62.2	62.2	
7-8 AM	3212	0.0	OFF	3212	0	0.00	0	53.6	53.6	53.6	
8-9 AM	2052	0.0	OFF	2052	0	0.00	0	62.5	62.5	62.5	
9-10 AM	1680	0.0	OFF	1680	0	0.00	0	63.3	63.3	63.3	
10-11 AM	1685	0.0	1499	1685	0	3.93	89	63.2	28.9	30.8	
11AM-NOON	1776	0.0	1500	1747	29	12.04+	309	63.1	13.7	30.8	
NOON-1PM	1977	0.0	1500	1500	477	15.81+	400	62.7	10.9	30.8	
1-2 PM	1975	0.0	1500	1500	475	15.81+	400	62.7	10.9	30.8	
2-3 PM	2087	0.0	1500	1500	587	15.80+	400	62.5	10.9	30.8	
3-4 PM	2242	0.0	OFF	2242	0	0.97	53	62.2	48.3	48.3	
4-5 PM	2567	0.0	OFF	2567	0	0.00	0	60.2	60.2	60.2	
5-6 PM	2337	0.0	OFF	2337	0	0.00	0	62.0	62.0	62.0	
6-7 PM	1691	0.0	OFF	1691	0	0.00	0	63.2	63.2	63.2	
7-8 PM	1239	0.0	OFF	1239	0	0.00	0	64.1	64.1	64.1	
8-9 PM	936	0.0	OFF	936	0	0.00	0	64.6	64.6	64.6	
9-10 PM	721	0.0	OFF	721	0	0.00	0	65.0	65.0	65.0	
10-11 PM	556	0.0	OFF	556	0	0.00	0	65.3	65.3	65.3	
11PM-MID	353	0.0	OFF	353	0	0.00	0	65.7	65.7	65.7	

"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

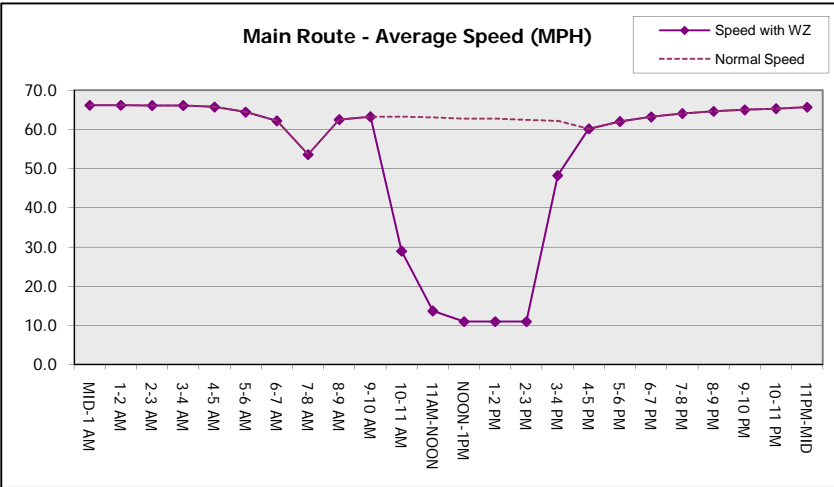
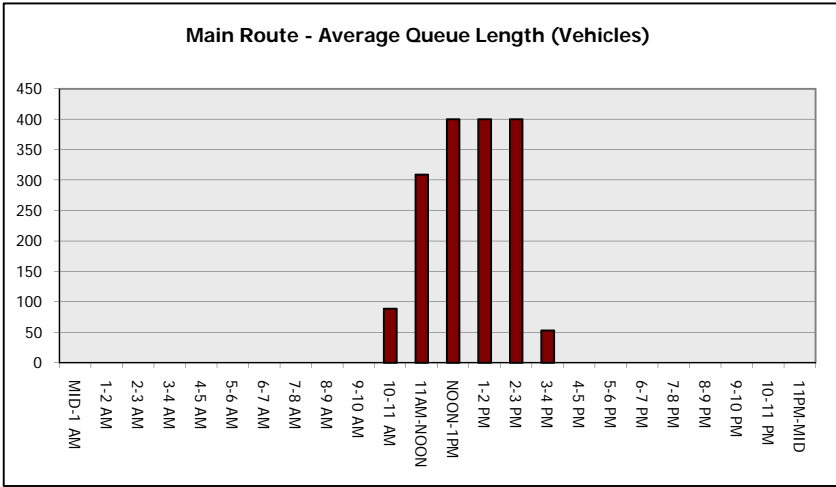
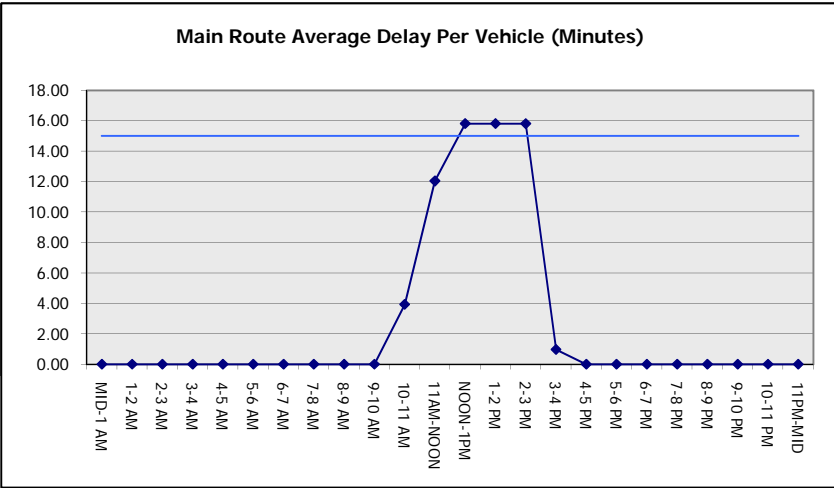
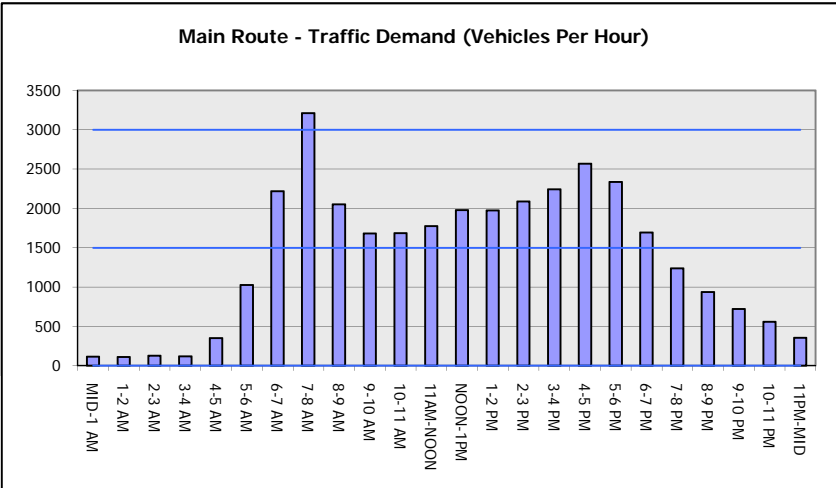
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0185
MAIN ROUTE WITH WORKS	0.0171
'DIVERSION'	0.0020
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$26,971
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY WESTBOUND DIRECTION



STH 172: STH 57 TO IH 43 (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
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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	235	0.0	OFF	235	0	0.00	0	66.0	66.0	66.0
1-2 AM	127	0.0	OFF	127	0	0.00	0	66.1	66.1	66.1
2-3 AM	167	0.0	OFF	167	0	0.00	0	66.1	66.1	66.1
3-4 AM	138	0.0	OFF	138	0	0.00	0	66.1	66.1	66.1
4-5 AM	201	0.0	OFF	201	0	0.00	0	66.0	66.0	66.0
5-6 AM	444	0.0	OFF	444	0	0.00	0	65.6	65.6	65.6
6-7 AM	1140	0.0	OFF	1140	0	0.00	0	64.3	64.3	64.3
7-8 AM	1621	0.0	OFF	1621	0	0.00	0	63.3	63.3	63.3
8-9 AM	1498	0.0	OFF	1498	0	0.00	0	63.6	63.6	63.6
9-10 AM	1305	0.0	OFF	1305	0	0.00	0	64.0	64.0	64.0
10-11 AM	1403	0.0	1499	1403	0	0.90	0	63.8	50.1	33.0
11AM-NOON	1821	0.0	1499	1821	0	5.49	146	63.0	23.8	30.8
NOON-1PM	1843	0.0	1499	1591	252	15.44+	390	63.0	11.2	30.8
1-2 PM	2042	0.0	1500	1500	542	15.80+	400	62.6	10.9	30.8
2-3 PM	2251	0.0	1500	1500	751	15.78+	400	62.2	10.9	30.8
3-4 PM	2871	0.0	OFF	2871	0	1.42	75	57.1	41.2	41.2
4-5 PM	3360	0.0	OFF	3360	0	0.00	0	52.1	52.1	52.1
5-6 PM	2867	0.0	OFF	2867	0	0.00	0	57.1	57.1	57.1
6-7 PM	1876	0.0	OFF	1876	0	0.00	0	62.9	62.9	62.9
7-8 PM	1380	0.0	OFF	1380	0	0.00	0	63.8	63.8	63.8
8-9 PM	1299	0.0	OFF	1299	0	0.00	0	64.0	64.0	64.0
9-10 PM	1059	0.0	OFF	1059	0	0.00	0	64.4	64.4	64.4
10-11 PM	783	0.0	OFF	783	0	0.00	0	64.9	64.9	64.9
11PM-MID	499	0.0	OFF	499	0	0.00	0	65.5	65.5	65.5

"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	0.0179
MAIN ROUTE WITH WORKS	0.0166
'DIVERSION'	0.0020

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$23,953
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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FRIDAY EASTBOUND DIRECTION

