

STH 172: STH 57 TO IH 43 (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
	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	250	0.0	OFF	250	0	0.00	0	65.9	65.9	65.9	
1-2 AM	176	0.0	OFF	176	0	0.00	0	66.1	66.1	66.1	
2-3 AM	137	0.0	OFF	137	0	0.00	0	66.1	66.1	66.1	
3-4 AM	111	0.0	OFF	111	0	0.00	0	66.2	66.2	66.2	
4-5 AM	157	0.0	OFF	157	0	0.00	0	66.1	66.1	66.1	
5-6 AM	351	0.0	OFF	351	0	0.00	0	65.7	65.7	65.7	
6-7 AM	532	0.0	OFF	532	0	0.00	0	65.4	65.4	65.4	
7-8 AM	783	0.0	OFF	783	0	0.00	0	64.9	64.9	64.9	
8-9 AM	1055	0.0	1500	1055	0	0.52	0	64.4	55.5	41.5	
9-10 AM	1426	0.0	1499	1426	0	0.93	0	63.7	49.7	32.5	
10-11 AM	1648	0.0	1499	1648	0	3.10	64	63.3	32.7	30.8	
11AM-NOON	1745	0.0	1500	1745	0	10.46	266	63.2	15.2	30.8	
NOON-1PM	1762	0.0	1499	1500	262	15.83+	400	63.1	10.9	30.8	
1-2 PM	1517	0.0	1500	1491	26	15.64+	394	63.5	11.1	30.8	
2-3 PM	1475	0.0	1500	1475	0	14.92+	374	63.7	11.5	30.8	
3-4 PM	1411	0.0	1499	1411	0	12.74	317	63.8	13.1	30.8	
4-5 PM	1399	0.0	1499	1399	0	9.07	219	63.8	17.0	30.8	
5-6 PM	1437	0.0	1500	1437	0	6.36	145	63.7	21.7	30.8	
6-7 PM	1174	0.0	OFF	1174	0	0.04	2	64.2	63.4	63.4	
7-8 PM	836	0.0	OFF	836	0	0.00	0	64.8	64.8	64.8	
8-9 PM	744	0.0	OFF	744	0	0.00	0	65.0	65.0	65.0	
9-10 PM	679	0.0	OFF	679	0	0.00	0	65.1	65.1	65.1	
10-11 PM	548	0.0	OFF	548	0	0.00	0	65.4	65.4	65.4	
11PM-MID	375	0.0	OFF	375	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

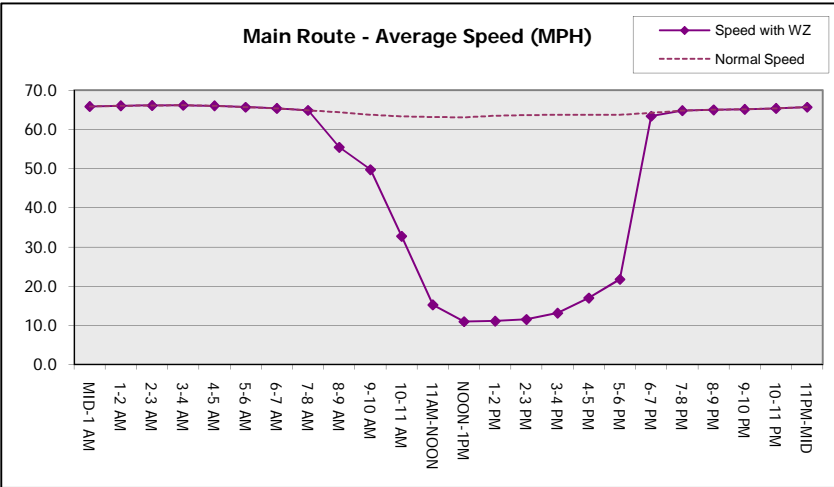
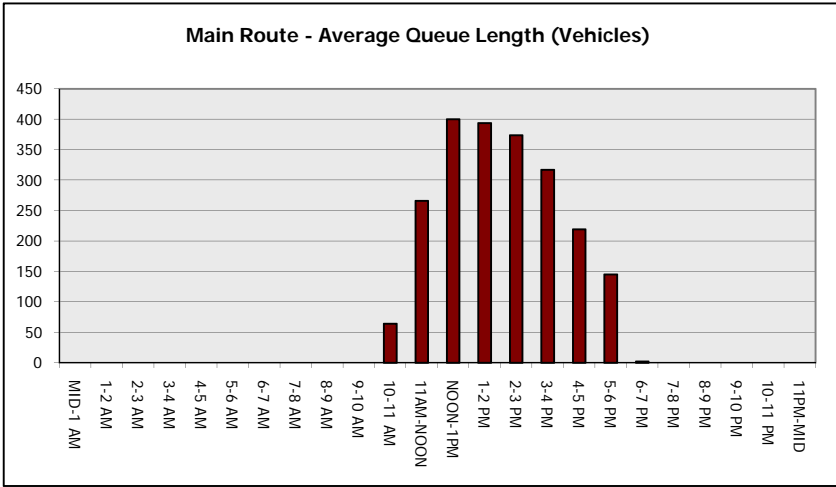
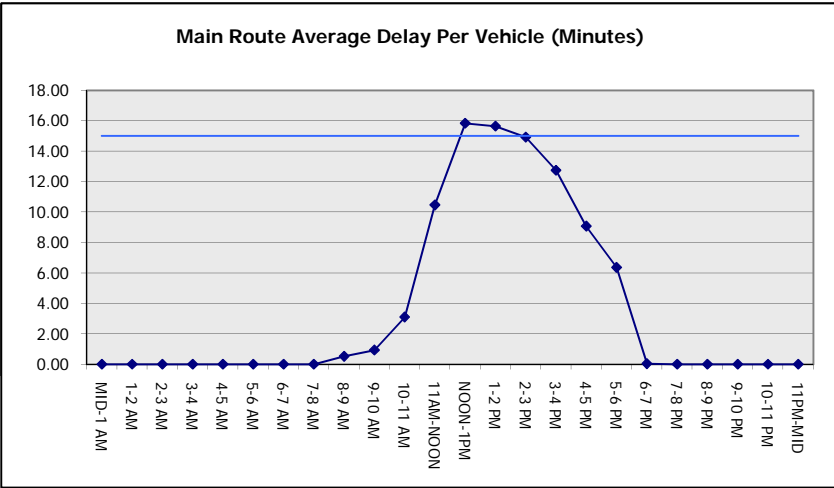
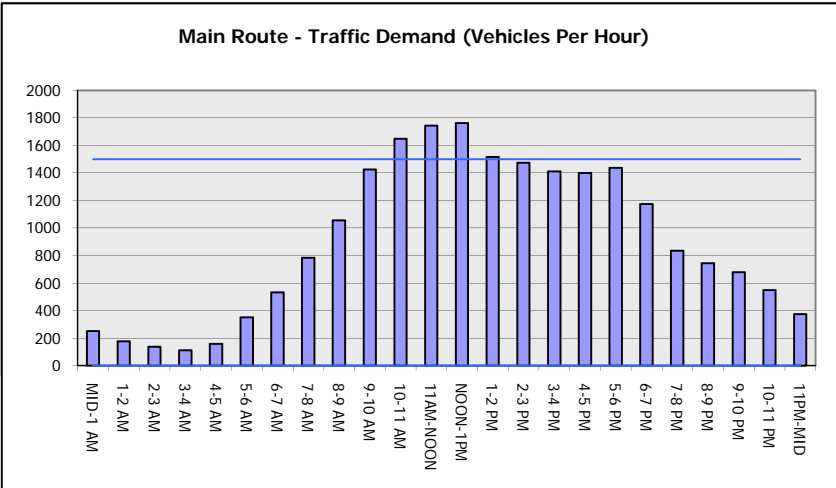
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0121
MAIN ROUTE WITH WORKS	0.0110
'DIVERSION'	0.0004
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$38,462
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY WESTBOUND DIRECTION



STH 172: STH 57 TO IH 43 (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	AUGUST
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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	337	0.0	OFF	337	0	0.00	0	65.8	65.8	65.8
1-2 AM	212	0.0	OFF	212	0	0.00	0	66.0	66.0	66.0
2-3 AM	202	0.0	OFF	202	0	0.00	0	66.0	66.0	66.0
3-4 AM	157	0.0	OFF	157	0	0.00	0	66.1	66.1	66.1
4-5 AM	152	0.0	OFF	152	0	0.00	0	66.1	66.1	66.1
5-6 AM	207	0.0	OFF	207	0	0.00	0	66.0	66.0	66.0
6-7 AM	408	0.0	OFF	408	0	0.00	0	65.6	65.6	65.6
7-8 AM	606	0.0	OFF	606	0	0.00	0	65.3	65.3	65.3
8-9 AM	829	0.0	1500	829	0	0.50	0	64.8	56.1	42.3
9-10 AM	1047	0.0	1500	1047	0	0.52	0	64.5	55.5	41.5
10-11 AM	1408	0.0	1499	1408	0	0.90	0	63.8	50.1	32.9
11AM-NOON	1626	0.0	1499	1626	0	2.82	54	63.3	34.2	30.8
NOON-1PM	1679	0.0	1500	1679	0	8.81	217	63.3	17.3	30.8
1-2 PM	1576	0.0	1499	1576	0	13.72	343	63.5	12.3	30.8
2-3 PM	1678	0.0	1499	1500	178	15.84+	400	63.3	10.9	30.8
3-4 PM	1688	0.0	1500	1500	188	15.84+	400	63.2	10.9	30.8
4-5 PM	1547	0.0	1500	1518	29	15.74+	397	63.5	11.0	30.8
5-6 PM	1362	0.0	1499	1362	0	13.62+	342	63.8	12.4	30.8
6-7 PM	1153	0.0	OFF	1153	0	0.21	12	64.2	60.4	60.4
7-8 PM	983	0.0	OFF	983	0	0.00	0	64.6	64.6	64.6
8-9 PM	925	0.0	OFF	925	0	0.00	0	64.6	64.6	64.6
9-10 PM	844	0.0	OFF	844	0	0.00	0	64.8	64.8	64.8
10-11 PM	681	0.0	OFF	681	0	0.00	0	65.1	65.1	65.1
11PM-MID	495	0.0	OFF	495	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	0.0121
MAIN ROUTE WITH WORKS	0.0110
'DIVERSION'	0.0005

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$38,732
CONGESTED HOURS PER DAY*	4

*Delays Exceeding User-Specified Maximum

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SATURDAY EASTBOUND DIRECTION

