

STH 172: STH 57 TO IH 43 (BROWN COUNTY) CONTINUOUS (24 HOUR) 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	1499	1275	0	0.73	0	64.0	52.4	36.3
9-10 AM	1510	0.0	1499	1510	0	1.27	8	63.6	45.9	31.2
10-11 AM	1712	0.0	1500	1712	0	5.25	127	63.2	24.5	30.8
11AM-NOON	1866	0.0	1500	1673	193	14.36+	365	62.9	11.9	30.8
NOON-1PM	1870	0.0	1500	1500	370	15.82+	400	62.9	10.9	30.8
1-2 PM	1754	0.0	1500	1500	254	15.83+	400	63.1	10.9	30.8
2-3 PM	1718	0.0	1500	1500	218	15.84+	400	63.2	10.9	30.8
3-4 PM	1697	0.0	1500	1500	197	15.84+	400	63.2	10.9	30.8
4-5 PM	1632	0.0	1500	1491	141	15.81+	399	63.3	11.0	30.8
5-6 PM	1534	0.0	1499	1478	56	15.76+	397	63.5	11.0	30.8
6-7 PM	1159	0.0	1499	1159	0	8.44	233	64.2	17.9	33.2
7-8 PM	970	0.0	1500	970	0	0.58	2	64.6	54.8	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

+ 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

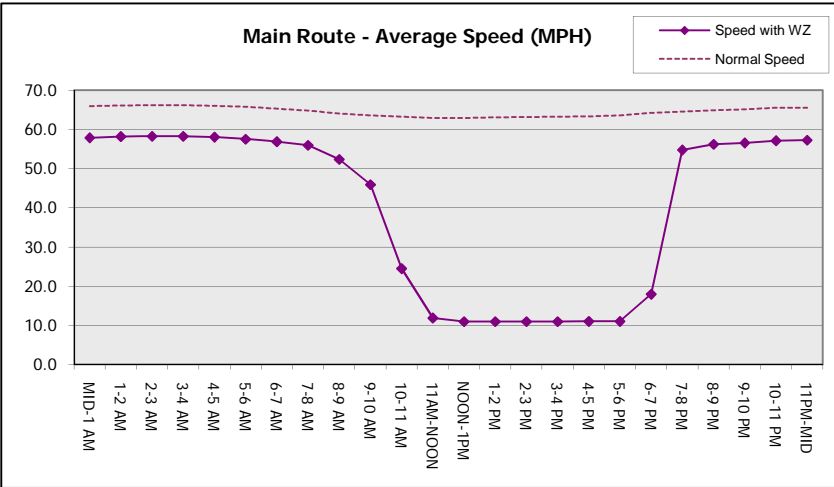
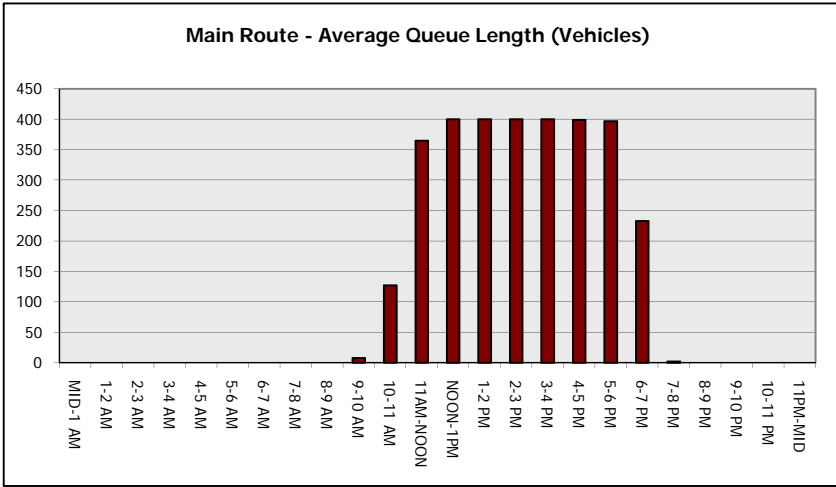
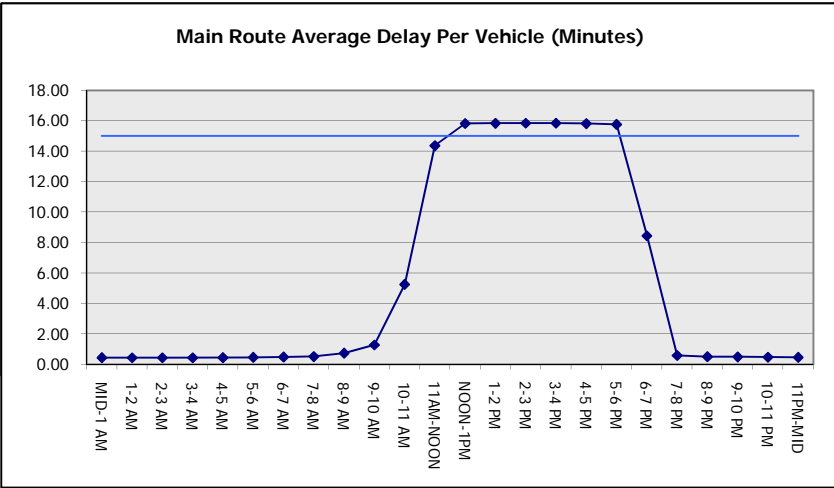
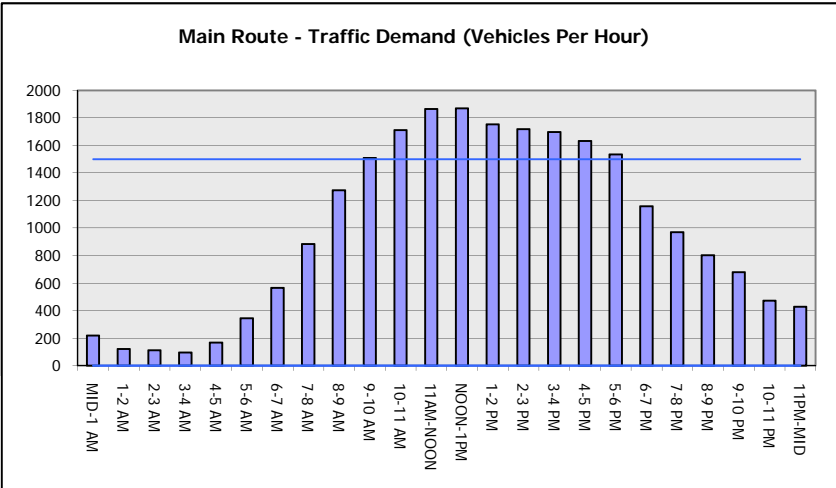
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0131
MAIN ROUTE WITH WORKS	0.0109
'DIVERSION'	0.0018
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$59,528
CONGESTED HOURS PER DAY*	7

*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) CONTINUOUS (24 HOUR) CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	MAY
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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	1500	1112	0	0.53	0	64.3	55.3	41.3
9-10 AM	1207	0.0	1500	1207	0	0.65	0	64.1	53.5	38.2
10-11 AM	1384	0.0	1499	1384	0	0.87	0	63.8	50.4	33.3
11AM-NOON	1585	0.0	1499	1585	0	2.14	33	63.4	38.5	30.8
NOON-1PM	1684	0.0	1500	1684	0	7.07	171	63.2	20.2	30.8
1-2 PM	1758	0.0	1500	1614	145	14.32+	363	63.1	11.9	30.8
2-3 PM	1932	0.0	1500	1500	432	15.81+	400	62.8	10.9	30.8
3-4 PM	1818	0.0	1500	1500	318	15.83+	400	63.0	10.9	30.8
4-5 PM	1652	0.0	1500	1504	148	15.82+	399	63.3	11.0	30.8
5-6 PM	1548	0.0	1500	1510	39	15.72+	396	63.5	11.1	30.8
6-7 PM	1352	0.0	1499	1352	0	13.35+	336	63.8	12.6	30.8
7-8 PM	1108	0.0	1499	1108	0	2.57	86	64.3	36.0	37.6
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

+ 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	0.0132
MAIN ROUTE WITH WORKS	0.0111
'DIVERSION'	0.0014

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$49,384
CONGESTED HOURS PER DAY*	6

*Delays Exceeding User-Specified Maximum

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SATURDAY EASTBOUND DIRECTION

