

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

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	107	0.0	1500	107	0	0.43	0	66.2	58.2	45.1	
1-2 AM	70	0.0	1500	70	0	0.43	0	66.3	58.4	45.2	
2-3 AM	85	0.0	1500	85	0	0.43	0	66.2	58.3	45.1	
3-4 AM	113	0.0	1500	113	0	0.43	0	66.2	58.2	45.0	
4-5 AM	340	0.0	1500	340	0	0.46	0	65.8	57.6	44.2	
5-6 AM	1106	0.0	1499	1106	0	0.67	0	64.3	53.4	38.0	
6-7 AM	2419	0.0	1499	1816	603	9.88+	278	61.7	15.8	31.4	
7-8 AM	3410	0.0	1500	1500	1910	15.01+	400	51.5	11.0	32.0	
8-9 AM	2019	0.0	1500	1596	422	15.38+	389	62.6	11.2	31.0	
9-10 AM	1536	0.0	1500	1471	65	15.73+	396	63.5	11.1	30.8	
10-11 AM	1500	0.0	1500	1500	0	15.20+	382	63.6	11.4	30.8	
11AM-NOON	1552	0.0	1500	1519	33	15.71+	396	63.5	11.1	30.8	
NOON-1PM	1606	0.0	1500	1500	106	15.85+	400	63.4	10.9	30.8	
1-2 PM	1646	0.0	1500	1500	146	15.84+	400	63.3	10.9	30.8	
2-3 PM	1835	0.0	1500	1500	335	15.82+	400	63.0	10.9	30.8	
3-4 PM	2122	0.0	1500	1500	622	15.80+	400	62.4	10.9	30.8	
4-5 PM	2367	0.0	1500	1500	867	15.77+	400	62.0	10.9	30.8	
5-6 PM	2167	0.0	1500	1500	667	15.79+	400	62.3	10.9	30.8	
6-7 PM	1479	0.0	1500	1415	64	15.07+	380	63.7	11.4	30.8	
7-8 PM	978	0.0	1499	978	0	2.91	113	64.6	34.1	38.3	
8-9 PM	747	0.0	1500	747	0	0.49	0	65.0	56.3	42.6	
9-10 PM	561	0.0	1500	561	0	0.48	0	65.3	56.9	43.3	
10-11 PM	392	0.0	1500	392	0	0.46	0	65.6	57.4	43.9	
11PM-MID	196	0.0	1500	196	0	0.44	0	66.0	57.9	44.7	

+ 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

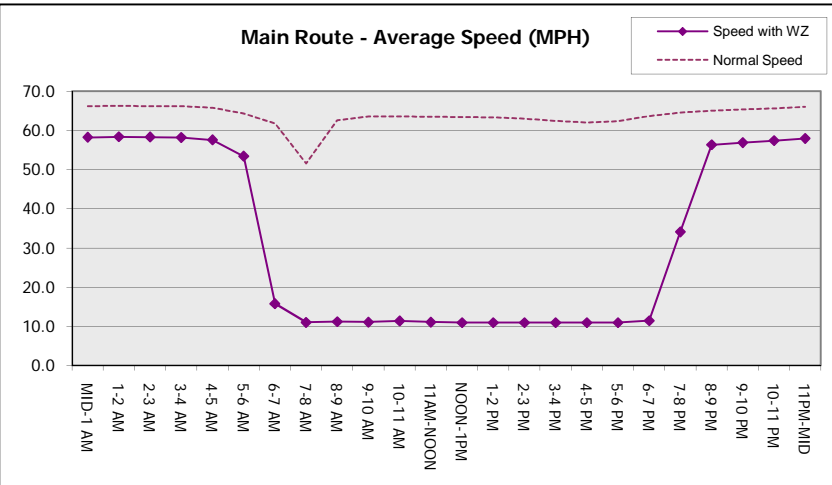
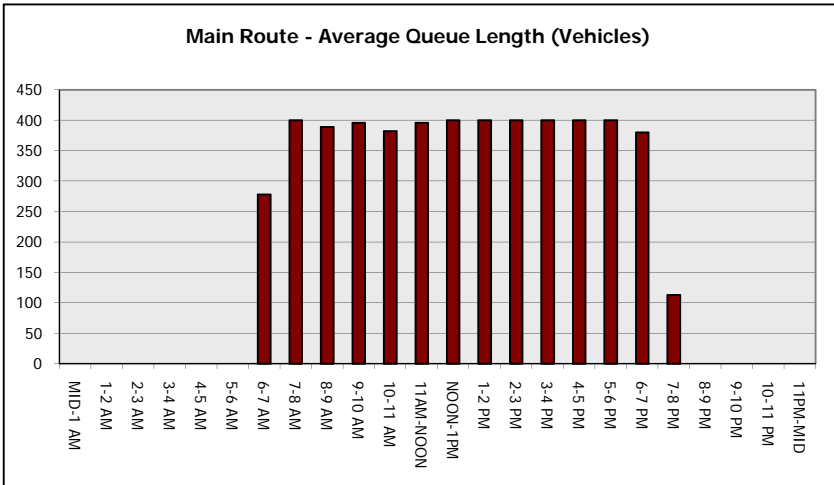
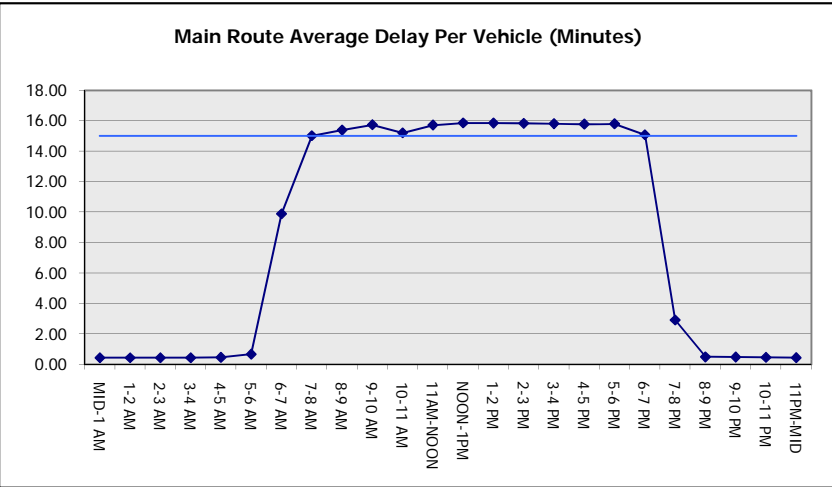
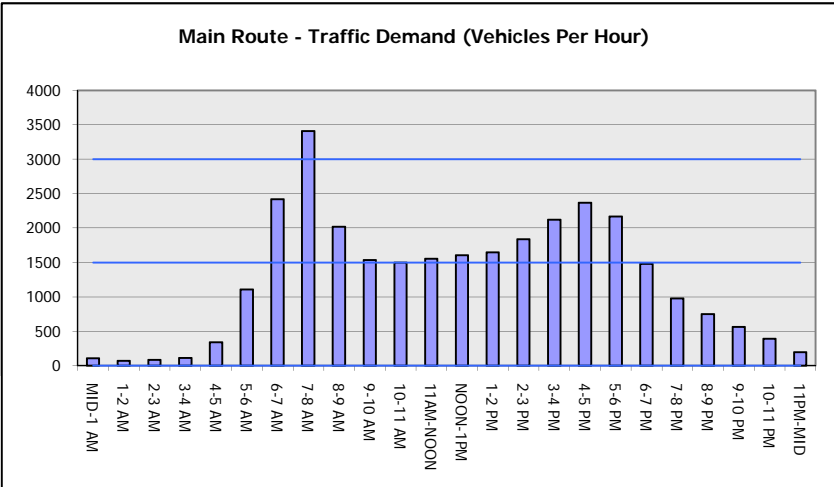
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0169
MAIN ROUTE WITH WORKS	0.0120
'DIVERSION'	0.0075
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$85,359
CONGESTED HOURS PER DAY*	13

*Delays Exceeding User-Specified Maximum

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Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR 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

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	1500	179	0	0.44	0	66.1	58.0	44.8
1-2 AM	121	0.0	1500	121	0	0.43	0	66.1	58.2	45.0
2-3 AM	102	0.0	1500	102	0	0.43	0	66.2	58.2	45.1
3-4 AM	102	0.0	1500	102	0	0.43	0	66.2	58.2	45.1
4-5 AM	208	0.0	1500	208	0	0.44	0	66.0	57.9	44.6
5-6 AM	506	0.0	1500	506	0	0.47	0	65.5	57.1	43.5
6-7 AM	1208	0.0	1499	1208	0	0.67	0	64.1	53.2	37.8
7-8 AM	1684	0.0	1499	1684	0	3.73	84	63.2	29.7	30.8
8-9 AM	1458	0.0	1499	1458	0	7.46	174	63.7	19.5	30.8
9-10 AM	1323	0.0	1499	1323	0	2.68	60	63.9	35.2	32.9
10-11 AM	1310	0.0	1499	1310	0	0.78	0	64.0	51.7	35.2
11AM-NOON	1513	0.0	1499	1513	0	1.23	6	63.6	46.3	31.1
NOON-1PM	1617	0.0	1500	1617	0	3.71	77	63.3	29.9	30.8
1-2 PM	1733	0.0	1500	1733	0	9.80	248	63.2	16.0	30.8
2-3 PM	1973	0.0	1499	1500	473	15.81+	400	62.7	10.9	30.8
3-4 PM	2741	0.0	1500	1500	1241	15.57+	400	58.4	10.9	30.8
4-5 PM	3436	0.0	1499	1500	1936	15.07+	400	51.3	10.9	30.8
5-6 PM	3066	0.0	1500	1500	1566	15.35+	400	55.1	10.9	30.8
6-7 PM	1944	0.0	1500	1500	444	15.81+	400	62.8	10.9	30.8
7-8 PM	1311	0.0	1500	1311	0	12.10	306	64.0	13.7	30.9
8-9 PM	1185	0.0	1500	1185	0	2.26	64	64.1	37.9	36.6
9-10 PM	920	0.0	1500	920	0	0.51	0	64.6	55.9	42.0
10-11 PM	570	0.0	1500	570	0	0.48	0	65.3	56.9	43.2
11PM-MID	372	0.0	1500	372	0	0.46	0	65.7	57.4	44.0

+ 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	0.0170
MAIN ROUTE WITH WORKS	0.0122
'DIVERSION'	0.0073

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$59,246
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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MON-THUR EASTBOUND DIRECTION

