

USH 41: CTH M 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

MON-THUR SOUTHBOUND 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	109	0.0	OFF	109	0	0.00	0	66.2	66.2	66.2	
1-2 AM	80	0.0	OFF	80	0	0.00	0	66.3	66.3	66.3	
2-3 AM	114	0.0	OFF	114	0	0.00	0	66.2	66.2	66.2	
3-4 AM	166	0.0	OFF	166	0	0.00	0	66.1	66.1	66.1	
4-5 AM	563	0.0	OFF	563	0	0.00	0	65.3	65.3	65.3	
5-6 AM	1551	0.0	OFF	1551	0	0.00	0	63.5	63.5	63.5	
6-7 AM	2596	0.0	OFF	2596	0	0.00	0	59.9	59.9	59.9	
7-8 AM	2813	0.0	OFF	2813	0	0.00	0	57.7	57.7	57.7	
8-9 AM	1821	0.0	OFF	1821	0	0.00	0	63.0	63.0	63.0	
9-10 AM	1549	0.0	OFF	1549	0	0.00	0	63.5	63.5	63.5	
10-11 AM	1600	0.0	1499	1600	0	2.68	49	63.4	27.7	30.8	
11AM-NOON	1562	0.0	1499	1562	0	5.89	132	63.5	16.5	30.8	
NOON-1PM	1550	0.0	1499	1550	0	7.86	185	63.5	13.4	30.8	
1-2 PM	1626	0.0	1500	1626	0	11.03	272	63.3	11.0	30.8	
2-3 PM	1633	0.0	1500	1570	64	15.73+	397	63.3	9.3	30.8	
3-4 PM	1613	0.0	OFF	1613	0	0.55	34	63.4	50.2	50.2	
4-5 PM	1671	0.0	OFF	1671	0	0.00	0	63.3	63.3	63.3	
5-6 PM	1598	0.0	OFF	1598	0	0.00	0	63.4	63.4	63.4	
6-7 PM	1078	0.0	OFF	1078	0	0.00	0	64.4	64.4	64.4	
7-8 PM	764	0.0	OFF	764	0	0.00	0	65.0	65.0	65.0	
8-9 PM	647	0.0	OFF	647	0	0.00	0	65.2	65.2	65.2	
9-10 PM	508	0.0	OFF	508	0	0.00	0	65.5	65.5	65.5	
10-11 PM	352	0.0	OFF	352	0	0.00	0	65.7	65.7	65.7	
11PM-MID	166	0.0	OFF	166	0	0.00	0	66.1	66.1	66.1	

"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

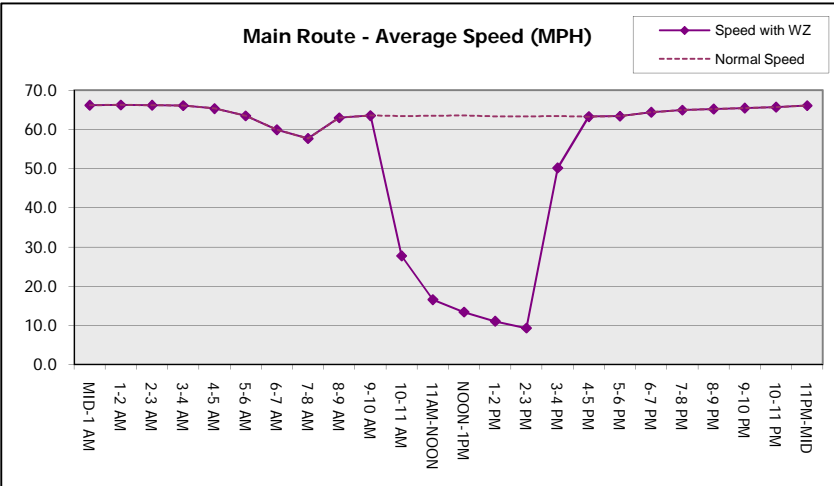
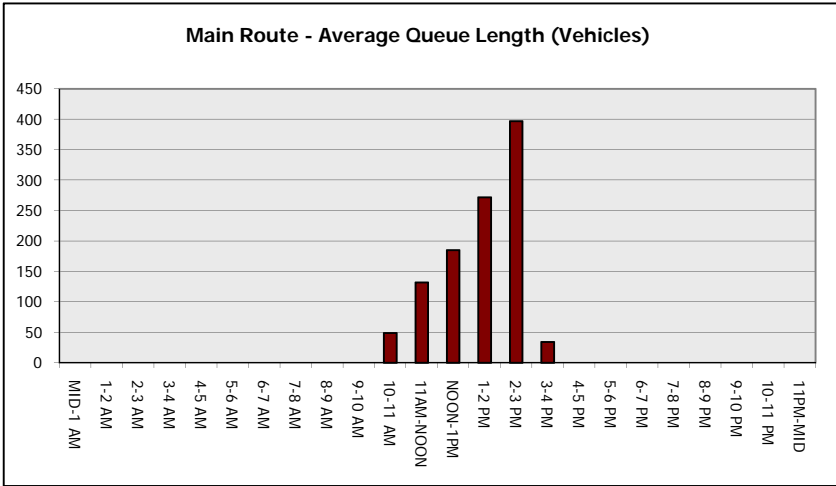
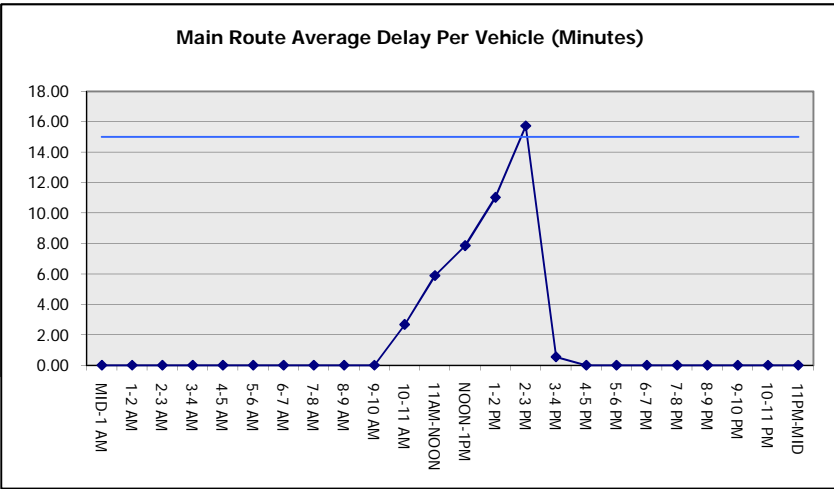
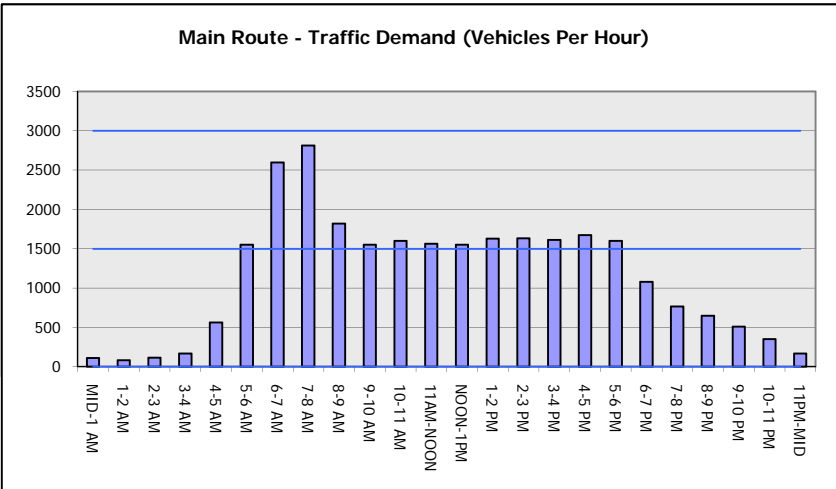
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0097
MAIN ROUTE WITH WORKS	0.0092
'DIVERSION'	0.0001
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$13,925
CONGESTED HOURS PER DAY*	1

*Delays Exceeding User-Specified Maximum

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AUGUST
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR NORTHBOUND 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	222	0.0	OFF	222	0	0.00	0	66.0	66.0	66.0
1-2 AM	129	0.0	OFF	129	0	0.00	0	66.1	66.1	66.1
2-3 AM	125	0.0	OFF	125	0	0.00	0	66.1	66.1	66.1
3-4 AM	136	0.0	OFF	136	0	0.00	0	66.1	66.1	66.1
4-5 AM	197	0.0	OFF	197	0	0.00	0	66.0	66.0	66.0
5-6 AM	425	0.0	OFF	425	0	0.00	0	65.6	65.6	65.6
6-7 AM	888	0.0	OFF	888	0	0.00	0	64.7	64.7	64.7
7-8 AM	977	0.0	OFF	977	0	0.00	0	64.6	64.6	64.6
8-9 AM	997	0.0	OFF	997	0	0.00	0	64.5	64.5	64.5
9-10 AM	1047	0.0	OFF	1047	0	0.00	0	64.5	64.5	64.5
10-11 AM	1191	0.0	1500	1191	0	0.62	0	64.1	49.2	38.8
11AM-NOON	1273	0.0	1500	1273	0	0.73	0	64.0	47.3	36.3
NOON-1PM	1375	0.0	1499	1375	0	0.86	0	63.8	45.0	33.6
1-2 PM	1554	0.0	1499	1554	0	1.46	13	63.5	37.3	30.8
2-3 PM	1833	0.0	1500	1833	0	7.31	194	63.0	14.7	30.8
3-4 PM	2431	0.0	OFF	2431	0	0.87	48	61.6	43.8	43.8
4-5 PM	3113	0.0	OFF	3113	0	0.00	0	54.6	54.6	54.6
5-6 PM	2972	0.0	OFF	2972	0	0.00	0	56.1	56.1	56.1
6-7 PM	1960	0.0	OFF	1960	0	0.00	0	62.7	62.7	62.7
7-8 PM	1333	0.0	OFF	1333	0	0.00	0	63.9	63.9	63.9
8-9 PM	1124	0.0	OFF	1124	0	0.00	0	64.3	64.3	64.3
9-10 PM	881	0.0	OFF	881	0	0.00	0	64.8	64.8	64.8
10-11 PM	560	0.0	OFF	560	0	0.00	0	65.3	65.3	65.3
11PM-MID	381	0.0	OFF	381	0	0.00	0	65.7	65.7	65.7

"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	0.0095
MAIN ROUTE WITH WORKS	0.0090
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$4,094
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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