

USH 41: CTH M 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 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	74	0.0	OFF	74	0	0.00	0	66.3	66.3	66.3	
1-2 AM	67	0.0	OFF	67	0	0.00	0	66.3	66.3	66.3	
2-3 AM	127	0.0	OFF	127	0	0.00	0	66.1	66.1	66.1	
3-4 AM	152	0.0	OFF	152	0	0.00	0	66.1	66.1	66.1	
4-5 AM	483	0.0	OFF	483	0	0.00	0	65.5	65.5	65.5	
5-6 AM	1332	0.0	OFF	1332	0	0.00	0	63.9	63.9	63.9	
6-7 AM	2541	0.0	OFF	2541	0	0.00	0	60.5	60.5	60.5	
7-8 AM	2816	0.0	OFF	2816	0	0.00	0	57.6	57.6	57.6	
8-9 AM	1867	0.0	OFF	1867	0	0.00	0	62.9	62.9	62.9	
9-10 AM	1581	0.0	OFF	1581	0	0.00	0	63.5	63.5	63.5	
10-11 AM	1495	0.0	1499	1495	0	1.13	3	63.6	41.2	31.0	
11AM-NOON	1422	0.0	1500	1422	0	0.92	0	63.7	44.1	32.5	
NOON-1PM	1447	0.0	1499	1447	0	0.96	0	63.7	43.6	31.9	
1-2 PM	1590	0.0	1499	1590	0	2.43	42	63.4	29.2	30.8	
2-3 PM	1535	0.0	1499	1535	0	4.95	106	63.5	18.8	30.8	
3-4 PM	1615	0.0	OFF	1615	0	0.06	3	63.4	61.7	61.7	
4-5 PM	1841	0.0	OFF	1841	0	0.00	0	63.0	63.0	63.0	
5-6 PM	1774	0.0	OFF	1774	0	0.00	0	63.1	63.1	63.1	
6-7 PM	1273	0.0	OFF	1273	0	0.00	0	64.0	64.0	64.0	
7-8 PM	908	0.0	OFF	908	0	0.00	0	64.7	64.7	64.7	
8-9 PM	609	0.0	OFF	609	0	0.00	0	65.3	65.3	65.3	
9-10 PM	509	0.0	OFF	509	0	0.00	0	65.5	65.5	65.5	
10-11 PM	389	0.0	OFF	389	0	0.00	0	65.6	65.6	65.6	
11PM-MID	221	0.0	OFF	221	0	0.00	0	66.0	66.0	66.0	

"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

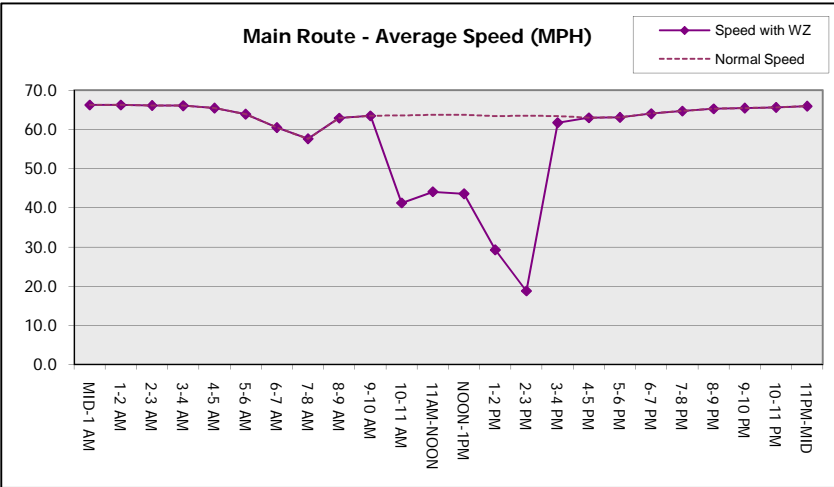
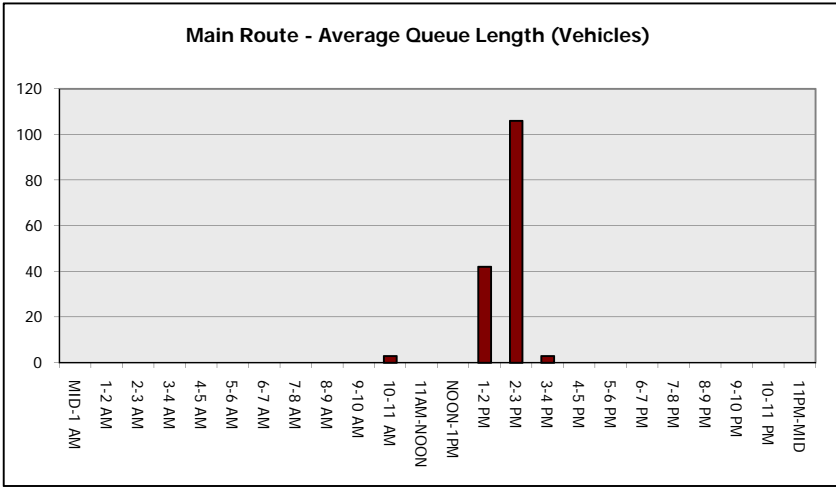
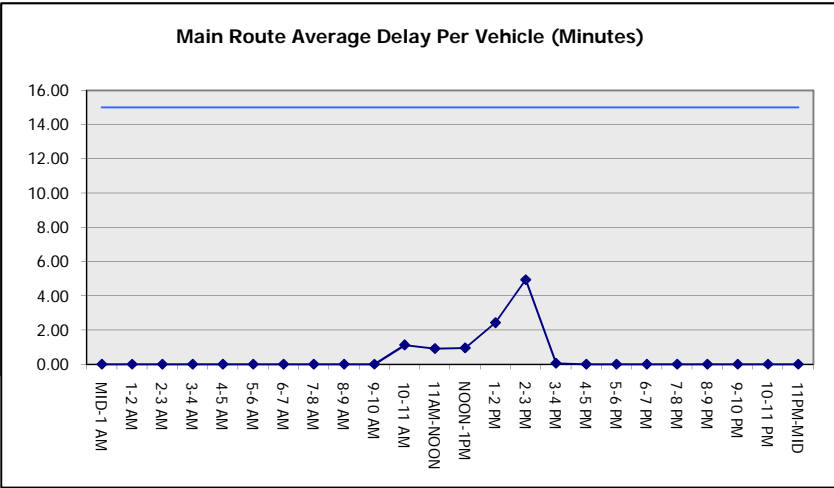
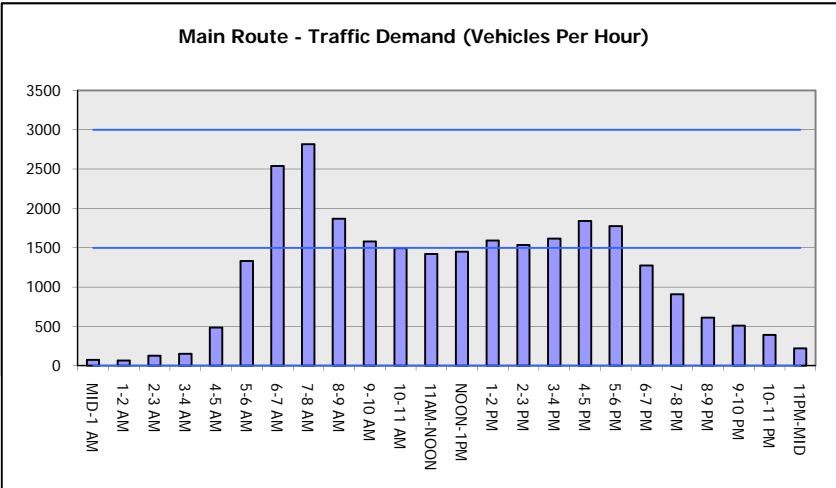
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0097
MAIN ROUTE WITH WORKS	0.0092
'DIVERSION'	0.0000
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$3,328
CONGESTED HOURS PER DAY*	0

*Delays Exceeding User-Specified Maximum

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Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	208	0.0	OFF	208	0	0.00	0	66.0	66.0	66.0
1-2 AM	154	0.0	OFF	154	0	0.00	0	66.1	66.1	66.1
2-3 AM	129	0.0	OFF	129	0	0.00	0	66.1	66.1	66.1
3-4 AM	148	0.0	OFF	148	0	0.00	0	66.1	66.1	66.1
4-5 AM	236	0.0	OFF	236	0	0.00	0	66.0	66.0	66.0
5-6 AM	358	0.0	OFF	358	0	0.00	0	65.7	65.7	65.7
6-7 AM	872	0.0	OFF	872	0	0.00	0	64.8	64.8	64.8
7-8 AM	1043	0.0	OFF	1043	0	0.00	0	64.5	64.5	64.5
8-9 AM	1078	0.0	OFF	1078	0	0.00	0	64.4	64.4	64.4
9-10 AM	1165	0.0	OFF	1165	0	0.00	0	64.2	64.2	64.2
10-11 AM	1408	0.0	1499	1408	0	0.90	0	63.8	44.4	32.9
11AM-NOON	1635	0.0	1499	1635	0	2.63	52	63.3	28.0	30.8
NOON-1PM	1894	0.0	1500	1826	68	11.64+	303	62.8	10.9	30.8
1-2 PM	2199	0.0	1500	1495	704	16.74+	425	62.3	9.0	30.8
2-3 PM	2506	0.0	1499	1489	1018	16.75+	427	60.8	8.9	30.8
3-4 PM	3126	0.0	OFF	3126	0	1.91	112	54.5	30.4	30.4
4-5 PM	3771	0.0	OFF	3771	0	0.00	0	47.9	47.9	47.9
5-6 PM	3513	0.0	OFF	3513	0	0.00	0	50.5	50.5	50.5
6-7 PM	2603	0.0	OFF	2603	0	0.00	0	59.8	59.8	59.8
7-8 PM	1735	0.0	OFF	1735	0	0.00	0	63.2	63.2	63.2
8-9 PM	1423	0.0	OFF	1423	0	0.00	0	63.7	63.7	63.7
9-10 PM	1114	0.0	OFF	1114	0	0.00	0	64.3	64.3	64.3
10-11 PM	808	0.0	OFF	808	0	0.00	0	64.9	64.9	64.9
11PM-MID	605	0.0	OFF	605	0	0.00	0	65.3	65.3	65.3

"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	0.0118
MAIN ROUTE WITH WORKS	0.0107
'DIVERSION'	0.0015

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$23,453
CONGESTED HOURS PER DAY*	3

*Delays Exceeding User-Specified Maximum

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