

USH 41: STH 29 TO CTH AAA (BROWN COUNTY) OFF-PEAK DAY CLOSURE NO DIVERSION ROUTE (MAX QUEUE METHOD)	OCTOBER
	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	367	0.0	OFF	367	0	0.00	0	65.7	65.7	65.7
1-2 AM	188	0.0	OFF	188	0	0.00	0	66.0	66.0	66.0
2-3 AM	164	0.0	OFF	164	0	0.00	0	66.1	66.1	66.1
3-4 AM	207	0.0	OFF	207	0	0.00	0	66.0	66.0	66.0
4-5 AM	506	0.0	OFF	506	0	0.00	0	65.5	65.5	65.5
5-6 AM	1518	0.0	OFF	1518	0	0.00	0	63.5	63.5	63.5
6-7 AM	2929	0.0	OFF	2929	0	0.00	0	56.5	56.5	56.5
7-8 AM	3774	0.0	OFF	3774	0	0.00	0	47.8	47.8	47.8
8-9 AM	2328	0.0	OFF	2328	0	0.00	0	62.0	62.0	62.0
9-10 AM	1949	0.0	OFF	1949	0	0.00	0	62.8	62.8	62.8
10-11 AM	1943	0.0	1499	1943	0	7.73	216	62.8	23.3	30.8
11AM-NOON	2094	0.0	1499	1500	594	15.77+	399	62.5	14.1	30.8
NOON-1PM	2267	0.0	1500	1500	767	15.75+	400	62.2	14.1	30.8
1-2 PM	2363	0.0	1500	1500	863	15.74+	400	62.0	14.1	30.8
2-3 PM	2568	0.0	1500	1500	1068	15.60+	400	60.2	14.1	30.8
3-4 PM	3056	0.0	OFF	3056	0	2.03	103	55.2	39.7	39.7
4-5 PM	3676	0.0	OFF	3676	0	0.00	0	48.8	48.8	48.8
5-6 PM	3314	0.0	OFF	3314	0	0.00	0	52.5	52.5	52.5
6-7 PM	1894	0.0	OFF	1894	0	0.00	0	62.8	62.8	62.8
7-8 PM	1335	0.0	OFF	1335	0	0.00	0	63.9	63.9	63.9
8-9 PM	1139	0.0	OFF	1139	0	0.00	0	64.3	64.3	64.3
9-10 PM	1057	0.0	OFF	1057	0	0.00	0	64.4	64.4	64.4
10-11 PM	653	0.0	OFF	653	0	0.00	0	65.1	65.1	65.1
11PM-MID	420	0.0	OFF	420	0	0.00	0	65.6	65.6	65.6

"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	0.0318
MAIN ROUTE WITH WORKS	0.0288
'DIVERSION'	0.0058
<small>PIA: Personal Injury Accidents</small>	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$35,594
CONGESTED HOURS PER DAY*	4

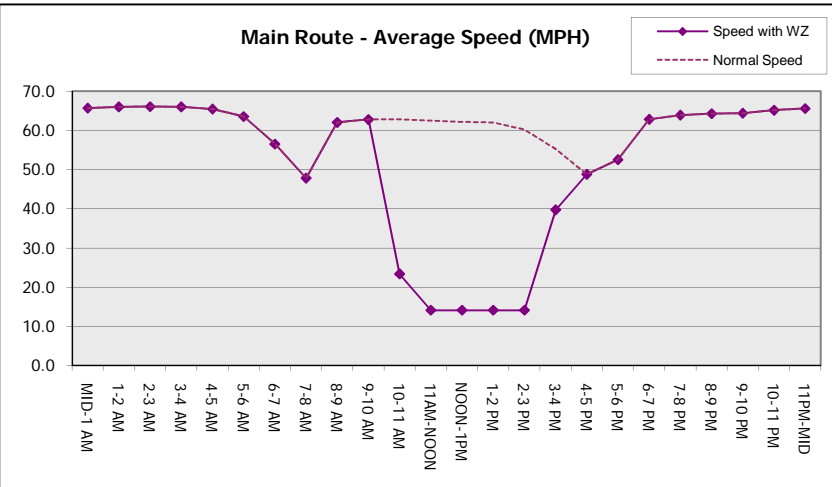
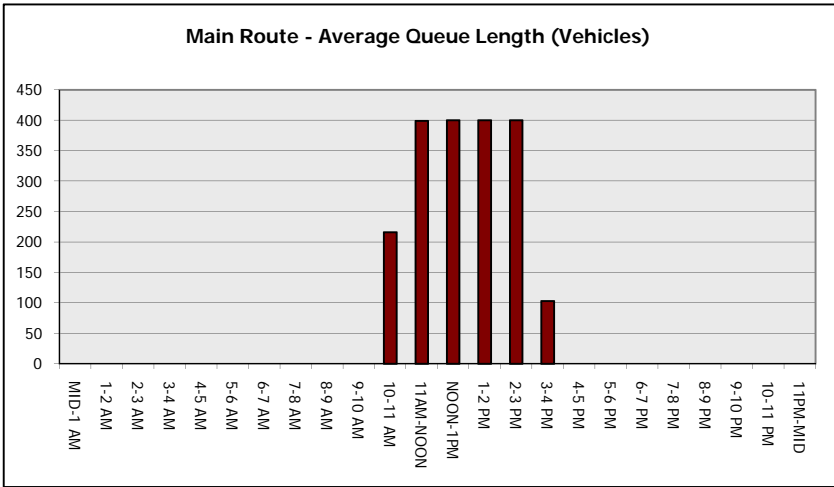
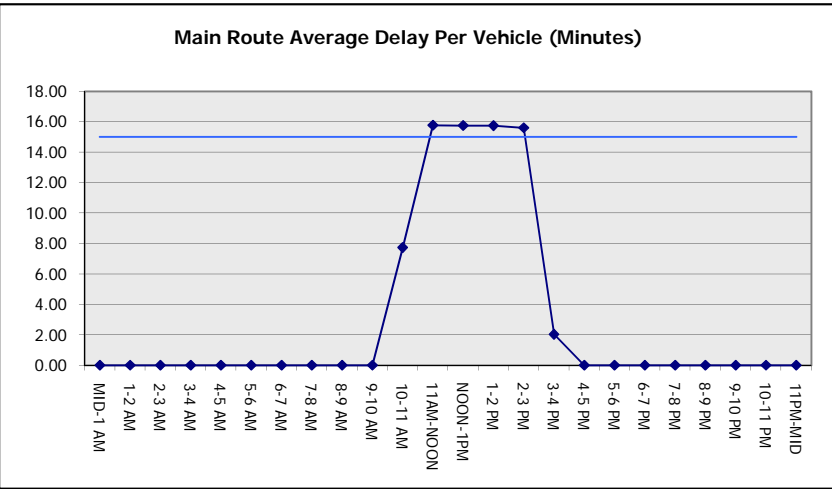
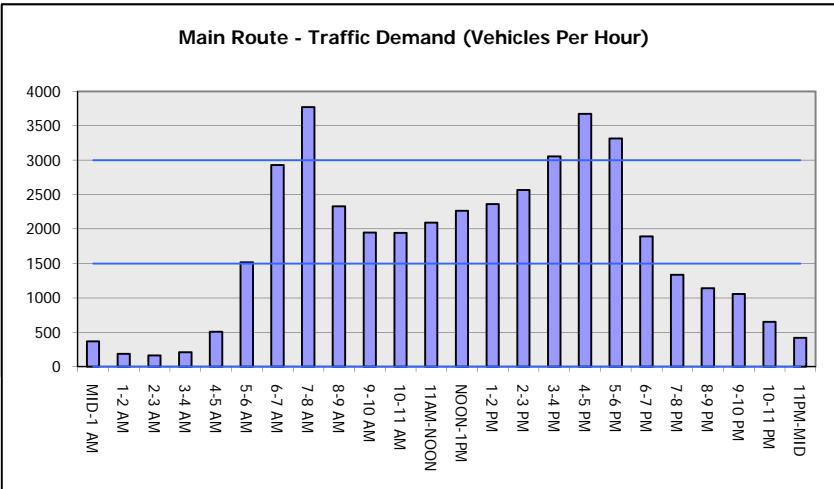
*Delays Exceeding User-Specified Maximum

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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	221	0.0	OFF	221	0	0.00	0	66.0	66.0	66.0
1-2 AM	137	0.0	OFF	137	0	0.00	0	66.1	66.1	66.1
2-3 AM	157	0.0	OFF	157	0	0.00	0	66.1	66.1	66.1
3-4 AM	171	0.0	OFF	171	0	0.00	0	66.1	66.1	66.1
4-5 AM	350	0.0	OFF	350	0	0.00	0	65.7	65.7	65.7
5-6 AM	957	0.0	OFF	957	0	0.00	0	64.6	64.6	64.6
6-7 AM	2357	0.0	OFF	2357	0	0.00	0	62.0	62.0	62.0
7-8 AM	3886	0.0	OFF	3886	0	0.00	0	46.7	46.7	46.7
8-9 AM	2720	0.0	OFF	2720	0	0.00	0	58.6	58.6	58.6
9-10 AM	2068	0.0	OFF	2068	0	0.00	0	62.5	62.5	62.5
10-11 AM	1976	0.0	1499	1976	0	8.30+	236	62.7	22.3	30.8
11AM-NOON	2139	0.0	1500	1459	680	15.62+	396	62.4	14.2	30.8
NOON-1PM	2180	0.0	1500	1500	680	15.76+	400	62.3	14.1	30.8
1-2 PM	2162	0.0	1500	1500	662	15.76+	400	62.3	14.1	30.8
2-3 PM	2553	0.0	1500	1500	1053	15.61+	400	60.4	14.1	30.8
3-4 PM	3174	0.0	OFF	3174	0	2.20	114	54.0	38.2	38.2
4-5 PM	3950	0.0	OFF	3950	0	0.00	0	46.0	46.0	46.0
5-6 PM	3536	0.0	OFF	3536	0	0.00	0	50.3	50.3	50.3
6-7 PM	2097	0.0	OFF	2097	0	0.00	0	62.5	62.5	62.5
7-8 PM	1323	0.0	OFF	1323	0	0.00	0	63.9	63.9	63.9
8-9 PM	998	0.0	OFF	998	0	0.00	0	64.5	64.5	64.5
9-10 PM	855	0.0	OFF	855	0	0.00	0	64.8	64.8	64.8
10-11 PM	612	0.0	OFF	612	0	0.00	0	65.3	65.3	65.3
11PM-MID	384	0.0	OFF	384	0	0.00	0	65.6	65.6	65.6

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

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

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

MAIN ROUTE WITHOUT WORKS	0.0313
MAIN ROUTE WITH WORKS	0.0284
'DIVERSION'	0.0054

PIA: Personal Injury Accidents

ROAD USER COSTS PER DAY	\$35,141
CONGESTED HOURS PER DAY*	5

*Delays Exceeding User-Specified Maximum

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OCTOBER

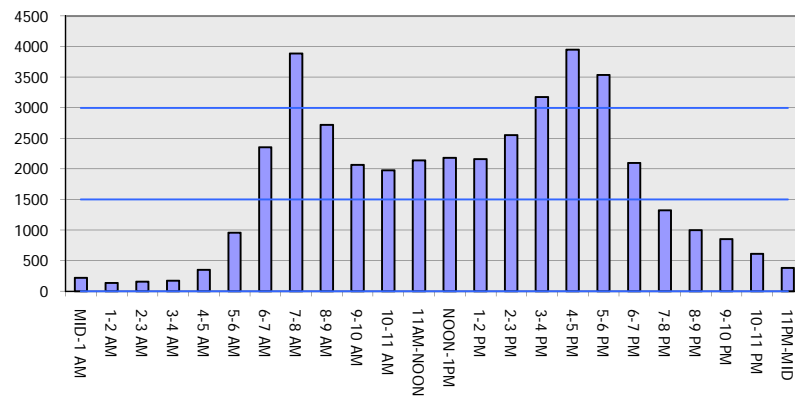
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

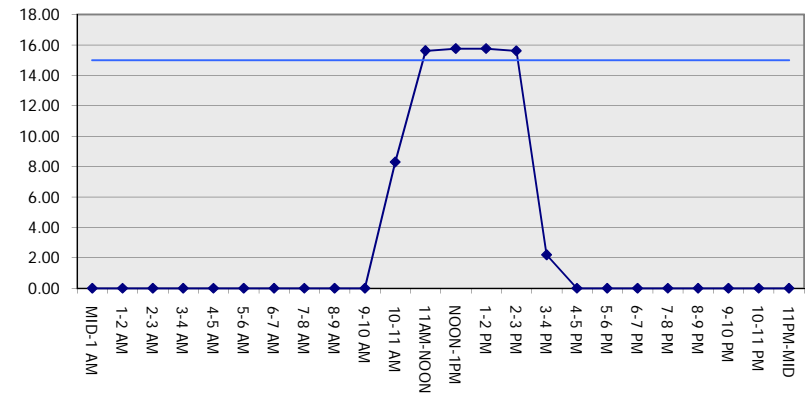
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NORTHBOUND DIRECTION

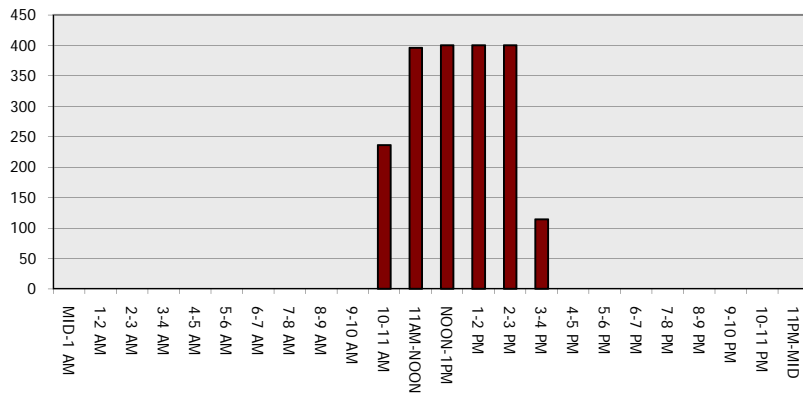
Main Route - Traffic Demand (Vehicles Per Hour)



Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)

