

**STH 172: USH 41 TO STH 57 (BROWN COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: STH 32, STH 57**

OCTOBER

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		ALTERNATE ROUTE		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN	SITE	WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	136	0.0	39	0.0	3000	136	0	39	0.22	0	60.2	53.5	49.7	23.0	23.0
1-2 AM	89	0.0	25	0.0	3000	89	0	25	0.22	0	60.2	53.5	49.7	23.2	23.2
2-3 AM	91	0.0	26	0.0	3000	91	0	26	0.22	0	60.2	53.5	49.7	23.2	23.2
3-4 AM	137	0.0	39	0.0	3000	137	0	39	0.22	0	60.2	53.5	49.7	23.0	23.0
4-5 AM	443	0.0	126	0.0	3000	443	0	126	0.22	0	60.2	53.5	49.7	21.8	21.8
5-6 AM	1421	0.0	401	0.0	3000	1421	0	401	0.22	0	60.2	53.5	49.7	17.8	17.8
6-7 AM	2911	0.0	821	0.0	2999	2911	0	821	0.87	32	60.2	39.8	41.3	11.7	12.1
7-8 AM	4216	0.0	1191	0.0	3000	4216	0	1191	12.87	750	60.2	11.1	37.3	9.6	11.1
8-9 AM	2500	0.0	705	0.0	2999	2500	0	705	21.45	1166	60.2	9.0	37.3	13.4	16.2
9-10 AM	1946	0.0	549	0.0	2999	1946	0	549	3.58	354	60.2	22.7	45.8	15.6	16.4
10-11 AM	1968	0.0	556	0.0	3000	1968	0	556	0.22	0	60.2	53.5	49.7	15.5	15.5
11A-NOON	2023	0.0	571	0.0	3000	2023	0	571	0.22	0	60.2	53.5	49.7	15.3	15.3
NOON-1PM	2175	0.0	614	0.0	3000	2175	0	614	0.22	0	60.2	53.5	49.7	14.7	14.7
1-2 PM	2175	0.0	614	0.0	3000	2175	0	614	0.22	0	60.2	53.5	49.7	14.7	14.7
2-3 PM	2333	0.0	658	0.0	3000	2333	0	658	0.22	0	60.2	53.5	49.7	14.0	14.0
3-4 PM	2529	0.0	715	0.0	3000	2529	0	715	0.31	0	60.2	50.9	46.1	13.2	13.2
4-5 PM	2790	0.0	788	0.0	3000	2790	0	788	0.49	0	60.2	46.8	40.7	12.1	12.1
5-6 PM	2751	0.0	776	0.0	3000	2751	0	776	0.46	0	60.2	47.4	41.5	12.3	12.3
6-7 PM	1815	0.0	513	0.0	3000	1815	0	513	0.22	0	60.2	53.5	49.7	16.1	16.1
7-8 PM	1113	0.0	314	0.0	3000	1113	0	314	0.22	0	60.2	53.5	49.7	19.0	19.0
8-9 PM	845	0.0	239	0.0	3000	845	0	239	0.22	0	60.2	53.5	49.7	20.1	20.1
9-10 PM	665	0.0	187	0.0	3000	665	0	187	0.22	0	60.2	53.5	49.7	20.9	20.9
10-11 PM	463	0.0	131	0.0	3000	463	0	131	0.22	0	60.2	53.5	49.7	21.7	21.7
11PM-MID	261	0.0	73	0.0	3000	261	0	73	0.22	0	60.2	53.5	49.7	22.5	22.5

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0102
MAIN ROUTE WITH WORKS	0.0077
DIVERSION	0.0770

PIA: Personal Injury Accidents

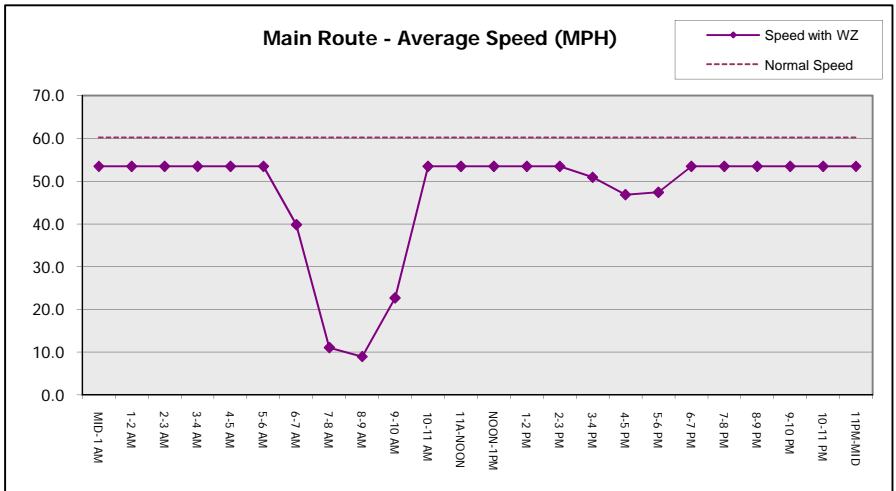
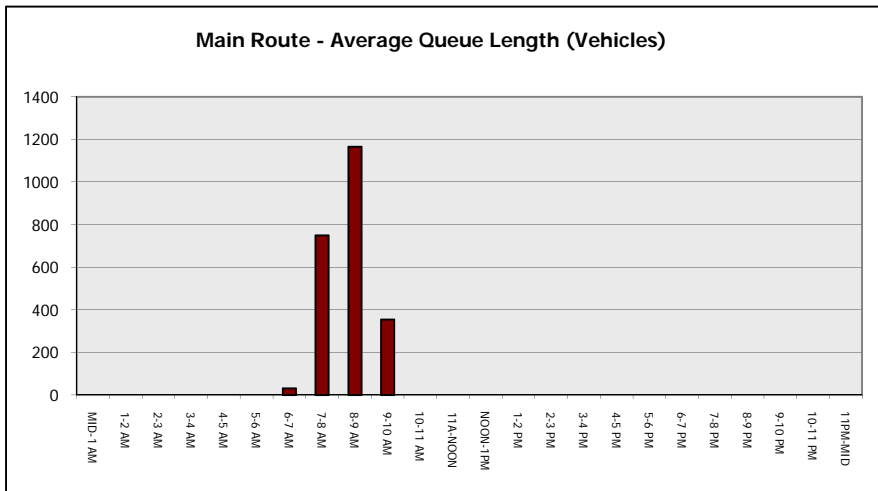
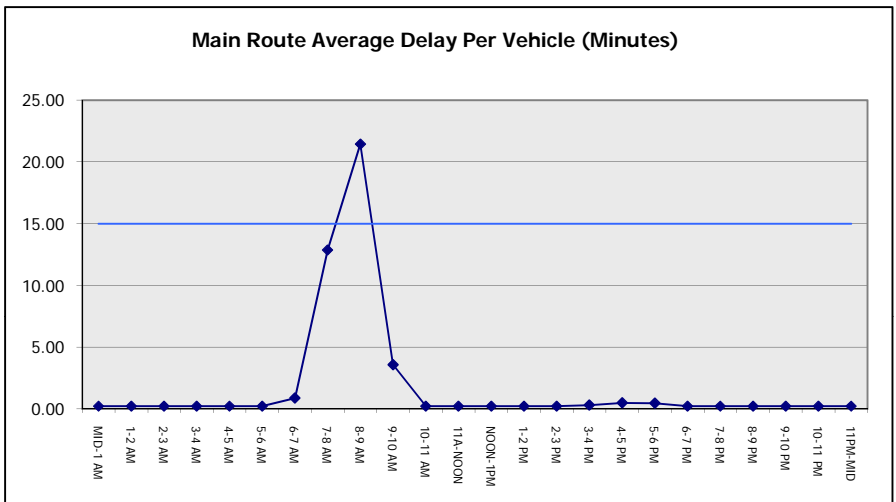
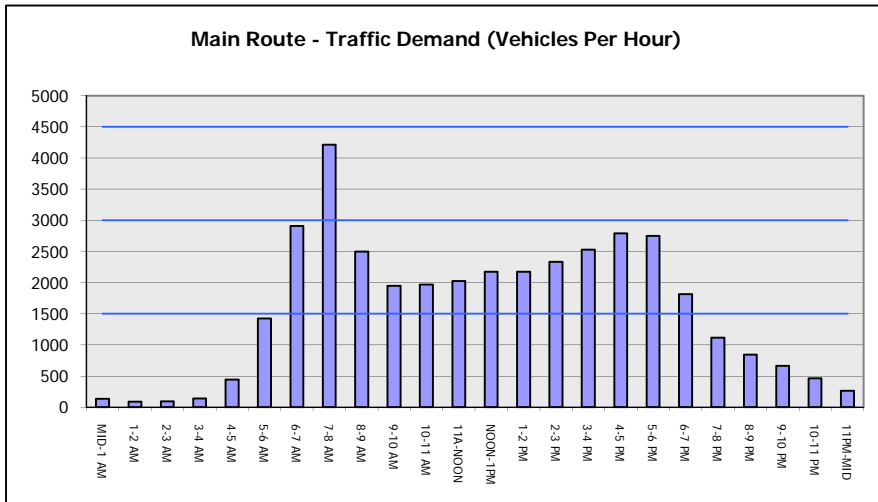
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$28,008
CONGESTED HOURS PER DAY*	1

*Delays Exceeding 15 Minutes

STH 172: USH 41 TO STH 57 (BROWN COUNTY)
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: STH 32, STH 57

OCTOBER
 Analyzed for 2009
 Construction Season

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



STH 172: USH 41 TO STH 57 (BROWN COUNTY) CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: STH 32, STH 57	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								AVERAGE SPEEDS IN MPH						
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	225	0.0	64	0.0	3000	225	0	64	0.22	0	60.2	53.5	49.7	21.7	21.7
1-2 AM	142	0.0	40	0.0	3000	142	0	40	0.22	0	60.2	53.5	49.7	22.4	22.4
2-3 AM	139	0.0	40	0.0	3000	139	0	40	0.22	0	60.2	53.5	49.7	22.4	22.4
3-4 AM	155	0.0	44	0.0	3000	155	0	44	0.22	0	60.2	53.5	49.7	22.3	22.3
4-5 AM	265	0.0	74	0.0	3000	265	0	74	0.22	0	60.2	53.5	49.7	21.4	21.4
5-6 AM	678	0.0	191	0.0	3000	678	0	191	0.22	0	60.2	53.5	49.7	17.9	17.9
6-7 AM	1436	0.0	405	0.0	3000	1436	0	405	0.22	0	60.2	53.5	49.7	11.7	11.7
7-8 AM	2004	0.0	566	0.0	3000	2004	0	566	0.22	0	60.2	53.5	49.7	9.9	9.9
8-9 AM	1853	0.0	523	0.0	3000	1853	0	523	0.22	0	60.2	53.5	49.7	10.4	10.4
9-10 AM	1608	0.0	454	0.0	3000	1608	0	454	0.22	0	60.2	53.5	49.7	11.2	11.2
10-11 AM	1632	0.0	461	0.0	3000	1632	0	461	0.22	0	60.2	53.5	49.7	11.1	11.1
11A-NOON	1820	0.0	514	0.0	3000	1820	0	514	0.22	0	60.2	53.5	49.7	10.5	10.5
NOON-1PM	2037	0.0	576	0.0	3000	2037	0	576	0.22	0	60.2	53.5	49.7	9.7	9.7
1-2 PM	2106	0.0	594	0.0	3000	2106	0	594	0.22	0	60.2	53.5	49.7	9.6	9.6
2-3 PM	2423	0.0	684	0.0	2999	2423	0	684	0.28	0	60.2	51.8	47.4	8.5	8.5
3-4 PM	3340	0.0	943	0.0	2999	3340	0	943+	2.20	117	60.2	26.6	37.3	6.8	6.9
4-5 PM	4113	0.0	1162	0.0	3000	4113	0	1162+	15.79	888	60.2	10.1	37.3	6.8	8.2
5-6 PM	3587	0.0	1013	0.0	2999	3587	0	1013+	32.97	1806	60.2	8.1	37.3	6.8	9.7
6-7 PM	2205	0.0	623	0.0	2999	2205	0	623	31.12	1705	60.2	8.1	37.3	9.2	12.6
7-8 PM	1554	0.0	440	0.0	2999	1554	0	440	5.81	562	60.2	18.5	45.1	11.4	12.5
8-9 PM	1305	0.0	368	0.0	3000	1305	0	368	0.22	0	60.2	53.5	49.7	12.7	12.7
9-10 PM	1222	0.0	345	0.0	3000	1222	0	345	0.22	0	60.2	53.5	49.7	13.4	13.4
10-11 PM	729	0.0	206	0.0	3000	729	0	206	0.22	0	60.2	53.5	49.7	17.5	17.5
11PM-MID	502	0.0	141	0.0	3000	502	0	141	0.22	0	60.2	53.5	49.7	19.4	19.4

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
ACCIDENT DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN	0.0
(VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN	0.0
(VEH-H) MAX	0.0
AV ACCIDENTS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV DIVN DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0100
MAIN ROUTE WITH WORKS	0.0076
DIVERSION	0.0756

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$61,326
CONGESTED HOURS PER DAY*	3

*Delays Exceeding 15 Minutes

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

