

STH 172: USH 41 TO STH 57 (BROWN COUNTY)
OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: STH 32 - STH 57

OCTOBER
 Analyzed for 2009
 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT
 SUNDAY 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	262	0.0	74	0.0	OFF	262	0	74	0.00	0	60.2	60.2	60.2	22.5	22.5
1-2 AM	169	0.0	48	0.0	OFF	169	0	48	0.00	0	60.2	60.2	60.2	22.9	22.9
2-3 AM	138	0.0	39	0.0	OFF	138	0	39	0.00	0	60.2	60.2	60.2	23.0	23.0
3-4 AM	113	0.0	31	0.0	OFF	113	0	31	0.00	0	60.2	60.2	60.2	23.2	23.2
4-5 AM	157	0.0	44	0.0	OFF	157	0	44	0.00	0	60.2	60.2	60.2	23.0	23.0
5-6 AM	325	0.0	92	0.0	OFF	325	0	92	0.00	0	60.2	60.2	60.2	22.2	22.2
6-7 AM	404	0.0	114	0.0	OFF	404	0	114	0.00	0	60.2	60.2	60.2	21.9	21.9
7-8 AM	715	0.0	202	0.0	OFF	715	0	202	0.00	0	60.2	60.2	60.2	20.7	20.7
8-9 AM	1327	0.0	375	0.0	OFF	1327	0	375	0.00	0	60.2	60.2	60.2	18.1	18.1
9-10 AM	2280	0.0	644	0.0	1499	2280	0	644	11.80	352	60.2	9.1	30.8	14.2	14.8
10-11 AM	2530	0.0	715	0.0	1500	1947	583	1298	40.63	1049	60.2	4.8	30.8	13.2	11.0
11A-NOON	2083	0.0	588	0.0	1500	1276	807	1395	43.24	1115	60.2	4.7	30.8	15.0	10.4
NOON-1PM	2083	0.0	588	0.0	1500	1456	627	1215	38.25	982	60.2	4.9	30.8	15.0	11.4
1-2 PM	1924	0.0	543	0.0	1500	1402	522	1065	34.89	894	60.2	5.1	30.8	15.7	12.2
2-3 PM	2179	0.0	615	0.0	1500	1651	528	1144	36.59	939	60.2	5.0	30.8	14.7	11.7
3-4 PM	2223	0.0	628	0.0	1500	1555	668	1296	40.33	1037	60.2	4.8	30.8	14.5	11.0
4-5 PM	2327	0.0	657	0.0	1500	1581	746	1403	43.47	1120	60.2	4.7	30.8	14.0	10.4
5-6 PM	2034	0.0	574	0.0	1500	1285	750	1324	41.18	1060	60.2	4.8	30.8	15.2	10.8
6-7 PM	1338	0.0	378	0.0	1500	1003	336	713	26.45	682	60.2	5.7	30.8	18.1	15.2
7-8 PM	864	0.0	244	0.0	OFF	864	0	244	0.18	18	60.2	54.3	54.3	20.1	20.1
8-9 PM	523	0.0	148	0.0	OFF	523	0	148	0.00	0	60.2	60.2	60.2	21.4	21.4
9-10 PM	470	0.0	133	0.0	OFF	470	0	133	0.00	0	60.2	60.2	60.2	21.7	21.7
10-11 PM	348	0.0	98	0.0	OFF	348	0	98	0.00	0	60.2	60.2	60.2	22.2	22.2
11PM-MID	244	0.0	69	0.0	OFF	244	0	69	0.00	0	60.2	60.2	60.2	22.6	22.6

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

----- 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	0.0073
MAIN ROUTE WITH WORKS	0.0048
DIVERSION	0.0953

PIA: Personal Injury Accidents

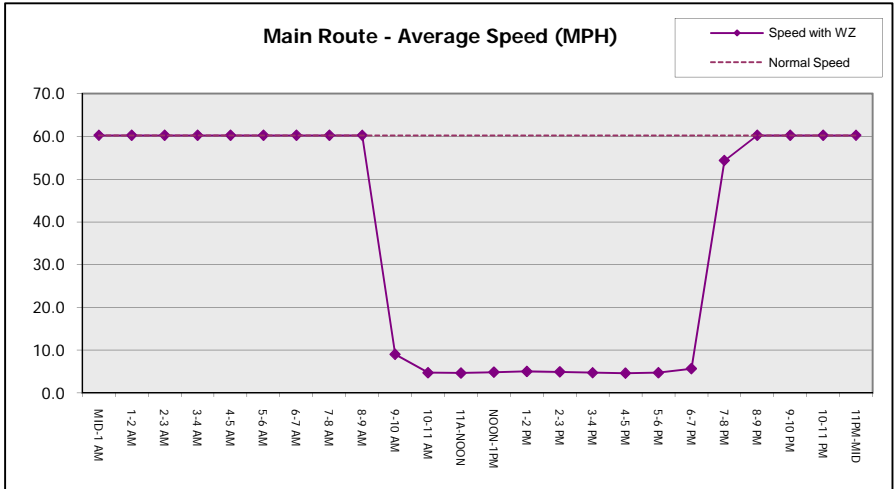
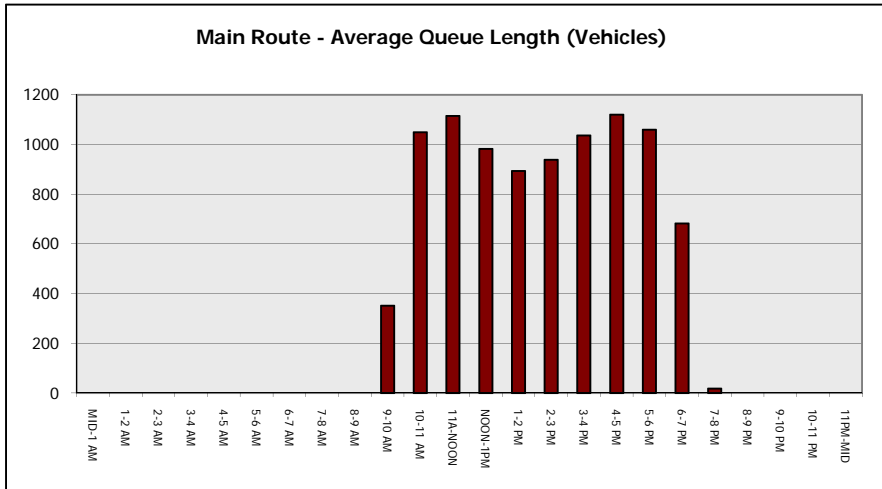
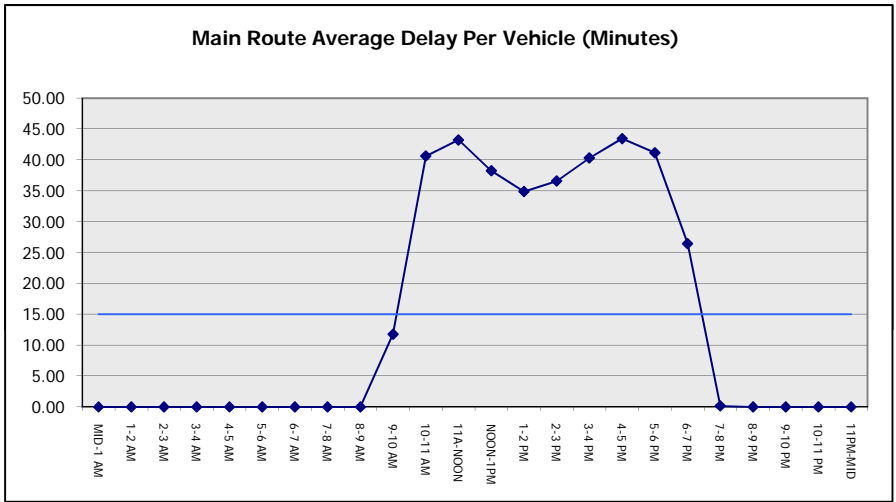
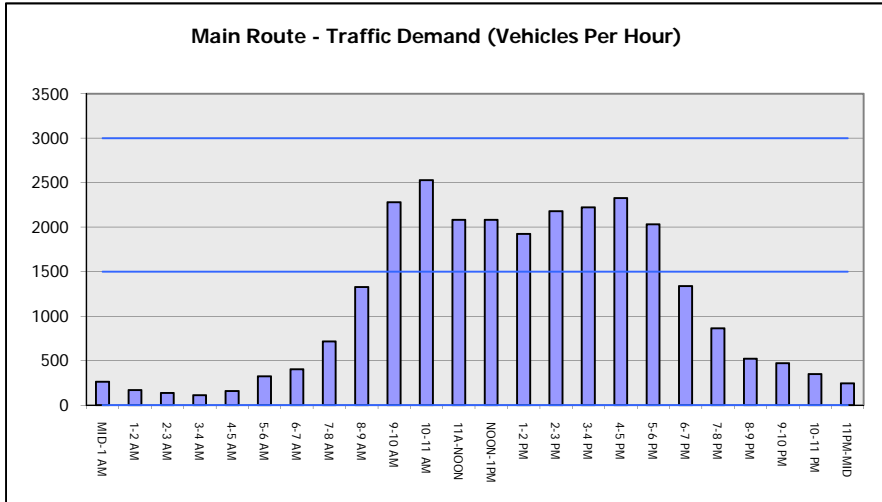
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$229,042
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

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DIVERSION ROUTE: STH 32 - STH 57

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



STH 172: USH 41 TO STH 57 (BROWN COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: STH 32 - STH 57	OCTOBER
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SUMMARY OF TRAFFIC MODEL OUTPUT

SUNDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVERTING	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	598	0.0	168	0.0	OFF	598	0	168	0.00	0	60.2	60.2	60.2	18.6	18.6
1-2 AM	297	0.0	84	0.0	OFF	297	0	84	0.00	0	60.2	60.2	60.2	21.1	21.1
2-3 AM	283	0.0	80	0.0	OFF	283	0	80	0.00	0	60.2	60.2	60.2	21.2	21.2
3-4 AM	215	0.0	61	0.0	OFF	215	0	61	0.00	0	60.2	60.2	60.2	21.8	21.8
4-5 AM	157	0.0	45	0.0	OFF	157	0	45	0.00	0	60.2	60.2	60.2	22.3	22.3
5-6 AM	237	0.0	67	0.0	OFF	237	0	67	0.00	0	60.2	60.2	60.2	21.6	21.6
6-7 AM	476	0.0	134	0.0	OFF	476	0	134	0.00	0	60.2	60.2	60.2	19.6	19.6
7-8 AM	567	0.0	160	0.0	OFF	567	0	160	0.00	0	60.2	60.2	60.2	18.9	18.9
8-9 AM	2113	0.0	596	0.0	OFF	2113	0	596	0.00	0	60.2	60.2	60.2	9.5	9.5
9-10 AM	2151	0.0	607	0.0	1499	2151	0	607	11.33	322	60.2	9.1	30.8	9.4	9.8
10-11 AM	2194	0.0	619	0.0	1500	2146	48	667	38.03	987	60.2	4.9	30.8	9.3	10.6
11A-NOON	2097	0.0	592	0.0	1499	1512	585	1177+	53.72	1390	60.2	4.4	30.8	9.6	9.1
NOON-1PM	1825	0.0	516	0.0	1499	1502	323	839+	51.19	1323	60.2	4.5	30.8	10.4	9.3
1-2 PM	1767	0.0	499	0.0	1499	1455	313	812+	49.66	1283	60.2	4.5	30.8	10.6	9.5
2-3 PM	1914	0.0	540	0.0	1499	1631	282	822+	50.24	1298	60.2	4.5	30.8	10.2	9.4
3-4 PM	2735	0.0	772	0.0	1499	1534	1201	1973+	54.23	1403	60.2	4.4	30.8	7.6	9.0
4-5 PM	3111	0.0	879	0.0	1499	1519	1592	2471+	55.57	1439	60.2	4.3	30.8	6.8	8.9
5-6 PM	3197	0.0	903	0.0	1499	1484	1713	2616+	55.65	1441	60.2	4.3	30.8	6.8	8.8
6-7 PM	2039	0.0	576	0.0	1499	1400	639	1215+	52.90	1368	60.2	4.4	30.8	9.7	9.1
7-8 PM	1343	0.0	379	0.0	OFF	1343	0	379	1.91	191	60.2	28.3	28.3	12.4	12.4
8-9 PM	972	0.0	274	0.0	OFF	972	0	274	0.00	0	60.2	60.2	60.2	15.5	15.5
9-10 PM	741	0.0	209	0.0	OFF	741	0	209	0.00	0	60.2	60.2	60.2	17.5	17.5
10-11 PM	781	0.0	221	0.0	OFF	781	0	221	0.00	0	60.2	60.2	60.2	17.1	17.1
11PM-MID	1604	0.0	453	0.0	OFF	1604	0	453	0.00	0	60.2	60.2	60.2	11.2	11.2

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

+ 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	0.0091
MAIN ROUTE WITH WORKS	0.0062
DIVERSION	0.1164

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$335,299
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: STH 32 - STH 57

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SUNDAY EASTBOUND DIRECTION

