

**STH 172: USH 41 TO STH 57 (BROWN COUNTY)
CONTINUOUS (24 HOUR) 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	1500	262	0	74	0.36	0	60.2	49.7	44.5	22.5	22.5
1-2 AM	169	0.0	48	0.0	1500	169	0	48	0.35	0	60.2	49.9	44.8	22.9	22.9
2-3 AM	138	0.0	39	0.0	1500	138	0	39	0.35	0	60.2	50.1	45.0	23.0	23.0
3-4 AM	113	0.0	31	0.0	1500	113	0	31	0.34	0	60.2	50.1	45.0	23.2	23.2
4-5 AM	157	0.0	44	0.0	1500	157	0	44	0.35	0	60.2	50.0	44.8	23.0	23.0
5-6 AM	325	0.0	92	0.0	1500	325	0	92	0.37	0	60.2	49.5	44.2	22.2	22.2
6-7 AM	404	0.0	114	0.0	1500	404	0	114	0.38	0	60.2	49.2	43.9	21.9	21.9
7-8 AM	715	0.0	202	0.0	1500	715	0	202	0.42	0	60.2	48.4	42.7	20.7	20.7
8-9 AM	1327	0.0	375	0.0	1499	1327	0	375	0.79	2	60.2	41.2	35.8	18.1	18.1
9-10 AM	2280	0.0	644	0.0	1500	2279	0	644	12.17	363	60.2	8.9	30.8	14.2	14.8
10-11 AM	2530	0.0	715	0.0	1500	1939	592	1306	40.85	1055	60.2	4.8	30.8	13.2	10.9
11A-NOON	2083	0.0	588	0.0	1500	1274	809	1397	43.29	1116	60.2	4.7	30.8	15.0	10.4
NOON-1PM	2083	0.0	588	0.0	1500	1456	627	1215	38.26	983	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	1499	864	0	244	3.13	169	60.2	22.3	38.5	20.1	20.3
8-9 PM	523	0.0	148	0.0	1500	523	0	148	0.39	0	60.2	48.9	43.4	21.4	21.4
9-10 PM	470	0.0	133	0.0	1500	470	0	133	0.39	0	60.2	49.1	43.6	21.7	21.7
10-11 PM	348	0.0	98	0.0	1500	348	0	98	0.37	0	60.2	49.4	44.1	22.2	22.2
11PM-MID	244	0.0	69	0.0	1500	244	0	69	0.36	0	60.2	49.7	44.5	22.6	22.6

----- 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	0.0044
DIVERSION	0.0954

PIA: Personal Injury Accidents

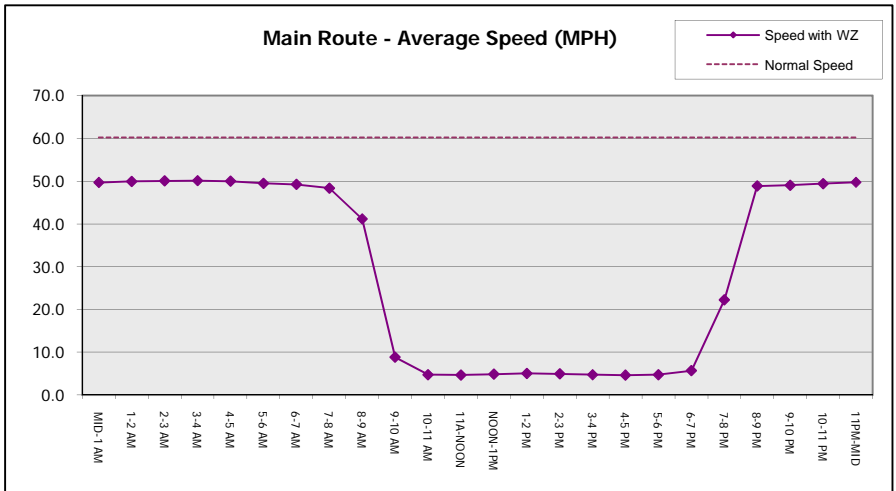
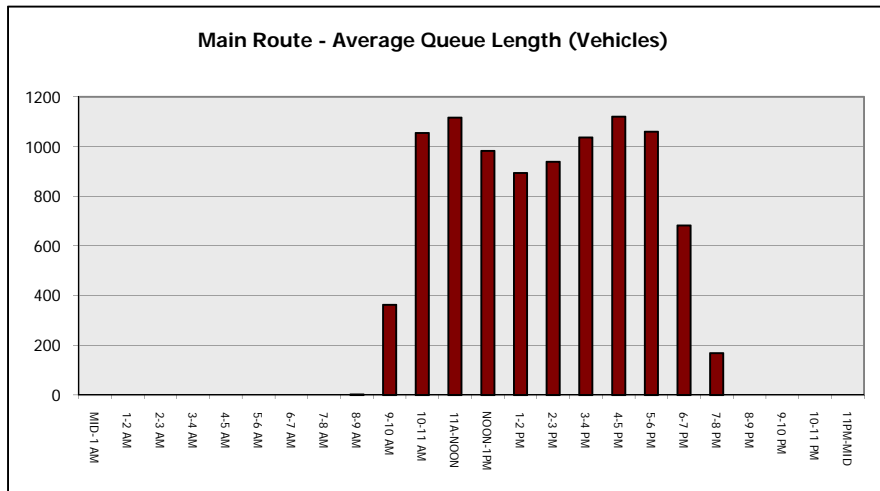
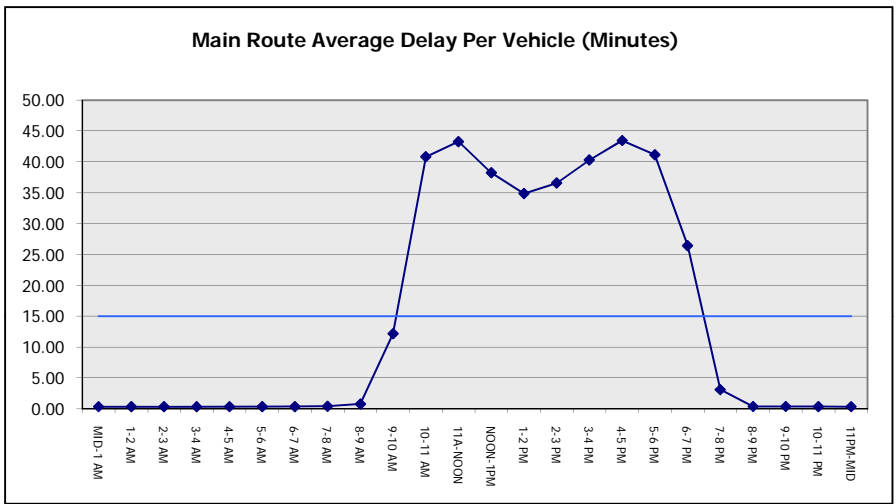
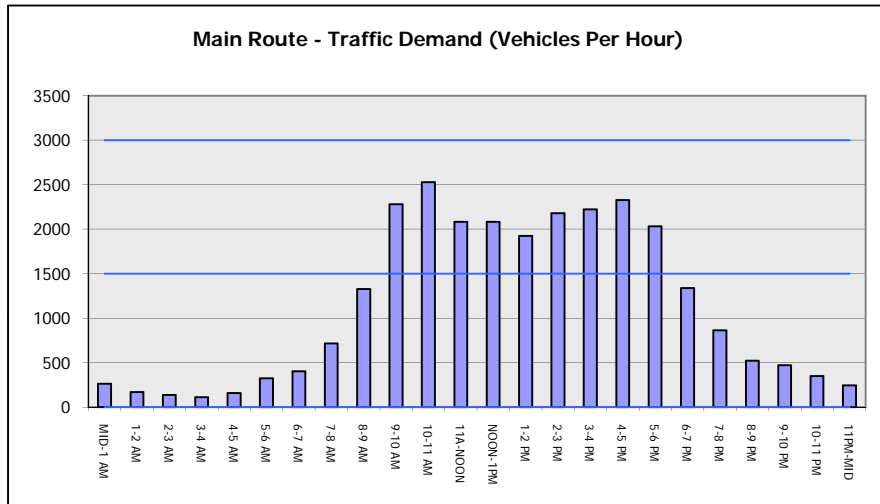
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$236,754
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

**STH 172: USH 41 TO STH 57 (BROWN COUNTY)
 CONTINUOUS (24 HOUR) 2 LANE CLOSURE
 DIVERSION ROUTE: STH 32, STH 57**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



STH 172: USH 41 TO STH 57 (BROWN COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: STH 32, STH 57	OCTOBER
	Analyzed for 2009 Construction Season

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 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	598	0.0	168	0.0	1500	598	0	169	0.54	7	60.2	45.6	43.1	18.6	18.6
1-2 AM	297	0.0	84	0.0	1500	297	0	84	0.37	0	60.2	49.6	44.3	21.1	21.1
2-3 AM	283	0.0	80	0.0	1500	283	0	80	0.36	0	60.2	49.6	44.3	21.2	21.2
3-4 AM	215	0.0	61	0.0	1500	215	0	61	0.35	0	60.2	49.8	44.6	21.8	21.8
4-5 AM	157	0.0	45	0.0	1500	157	0	45	0.35	0	60.2	50.0	44.8	22.3	22.3
5-6 AM	237	0.0	67	0.0	1500	237	0	67	0.36	0	60.2	49.7	44.5	21.6	21.6
6-7 AM	476	0.0	134	0.0	1500	476	0	134	0.39	0	60.2	49.1	43.6	19.6	19.6
7-8 AM	567	0.0	160	0.0	1500	567	0	160	0.40	0	60.2	48.7	43.2	18.9	18.9
8-9 AM	2113	0.0	596	0.0	1499	2113	0	596	8.39	257	60.2	11.4	30.8	9.5	9.8
9-10 AM	2151	0.0	607	0.0	1499	2119	32	639	35.78	928	60.2	5.0	30.8	9.4	10.8
10-11 AM	2194	0.0	619	0.0	1499	1590	604	1223+	53.01	1371	60.2	4.4	30.8	9.3	9.1
11A-NOON	2097	0.0	592	0.0	1499	1507	590	1182+	53.74	1390	60.2	4.4	30.8	9.6	9.1
NOON-1PM	1825	0.0	516	0.0	1499	1492	333	849+	51.76	1338	60.2	4.4	30.8	10.4	9.3
1-2 PM	1767	0.0	499	0.0	1499	1449	318	817+	49.95	1291	60.2	4.5	30.8	10.6	9.5
2-3 PM	1914	0.0	540	0.0	1499	1629	285	825+	50.39	1302	60.2	4.5	30.8	10.2	9.4
3-4 PM	2735	0.0	772	0.0	1499	1533	1203	1975+	54.22	1403	60.2	4.4	30.8	7.6	9.0
4-5 PM	3111	0.0	879	0.0	1499	1518	1593	2472+	55.58	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	640	1215+	52.90	1368	60.2	4.4	30.8	9.7	9.1
7-8 PM	1343	0.0	379	0.0	1499	1025	319	697	43.30	1119	60.2	4.7	30.8	12.4	10.5
8-9 PM	972	0.0	274	0.0	1499	931	41	315	22.28	584	60.2	6.2	31.5	15.5	15.6
9-10 PM	741	0.0	209	0.0	1500	741	0	209	1.21	57	60.2	35.3	42.3	17.5	17.5
10-11 PM	781	0.0	221	0.0	1500	781	0	221	0.42	0	60.2	48.2	42.5	17.1	17.1
11PM-MID	1604	0.0	453	0.0	1499	1604	0	453	2.96	57	60.2	21.9	30.8	11.2	11.2

+ 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	0.0053
DIVERSION	0.1235

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$402,377
CONGESTED HOURS PER DAY*	12

*Delays Exceeding 15 Minutes

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 CONTINUOUS (24 HOUR) 2 LANE CLOSURE
 DIVERSION ROUTE: STH 32, STH 57**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

