

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

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	1500	136	0	39	0.35	0	60.2	50.1	45.0	23.0	23.0
1-2 AM	89	0.0	25	0.0	1500	89	0	25	0.34	0	60.2	50.2	45.1	23.2	23.2
2-3 AM	91	0.0	26	0.0	1500	91	0	26	0.34	0	60.2	50.2	45.1	23.2	23.2
3-4 AM	137	0.0	39	0.0	1500	137	0	39	0.35	0	60.2	50.1	45.0	23.0	23.0
4-5 AM	443	0.0	126	0.0	1500	443	0	126	0.38	0	60.2	49.1	43.7	21.8	21.8
5-6 AM	1421	0.0	401	0.0	1499	1421	0	401	1.29	28	60.2	34.2	36.0	17.8	17.8
6-7 AM	2911	0.0	821	0.0	1500	2740	171	992	23.93	697	60.2	6.3	30.8	11.7	12.6
7-8 AM	4216	0.0	1191	0.0	1500	1500	2716	3906+	55.80	1445	60.2	4.3	30.8	9.6	8.8
8-9 AM	2500	0.0	705	0.0	1500	1394	1106	1811+	52.91	1369	60.2	4.4	30.8	13.4	9.1
9-10 AM	1946	0.0	549	0.0	1500	1161	785	1335	41.57	1072	60.2	4.8	30.8	15.6	10.7
10-11 AM	1968	0.0	556	0.0	1500	1470	499	1054	34.65	887	60.2	5.1	30.8	15.5	12.2
11A-NOON	2023	0.0	571	0.0	1500	1533	490	1061	34.79	891	60.2	5.1	30.8	15.3	12.2
NOON-1PM	2175	0.0	614	0.0	1500	1600	575	1189	37.63	966	60.2	4.9	30.8	14.7	11.5
1-2 PM	2175	0.0	614	0.0	1500	1520	655	1269	39.61	1018	60.2	4.8	30.8	14.7	11.1
2-3 PM	2333	0.0	658	0.0	1500	1624	708	1366	42.35	1091	60.2	4.7	30.8	14.0	10.6
3-4 PM	2529	0.0	715	0.0	1500	1671	859	1573+	48.02	1240	60.2	4.5	30.8	13.2	9.7
4-5 PM	2790	0.0	788	0.0	1500	1565	1226	2014+	54.45	1409	60.2	4.3	30.8	12.1	9.0
5-6 PM	2751	0.0	776	0.0	1500	1488	1263	2039+	54.41	1408	60.2	4.3	30.8	12.3	9.0
6-7 PM	1815	0.0	513	0.0	1500	933	882	1395	42.95	1112	60.2	4.7	30.8	16.1	10.6
7-8 PM	1113	0.0	314	0.0	1500	943	170	484	19.87	522	60.2	6.6	31.4	19.0	17.8
8-9 PM	845	0.0	239	0.0	1500	845	0	239	1.27	54	60.2	34.5	41.7	20.1	20.1
9-10 PM	665	0.0	187	0.0	1500	665	0	187	0.41	0	60.2	48.5	42.9	20.9	20.9
10-11 PM	463	0.0	131	0.0	1500	463	0	131	0.39	0	60.2	49.1	43.7	21.7	21.7
11PM-MID	261	0.0	73	0.0	1500	261	0	73	0.36	0	60.2	49.7	44.5	22.5	22.5

+ INDICATES DIVERSION FLOW EXCEEDS USER-SPECIFIED WARNING LIMIT

----- 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	0.0053
DIVERSION	0.1644

PIA: Personal Injury Accidents

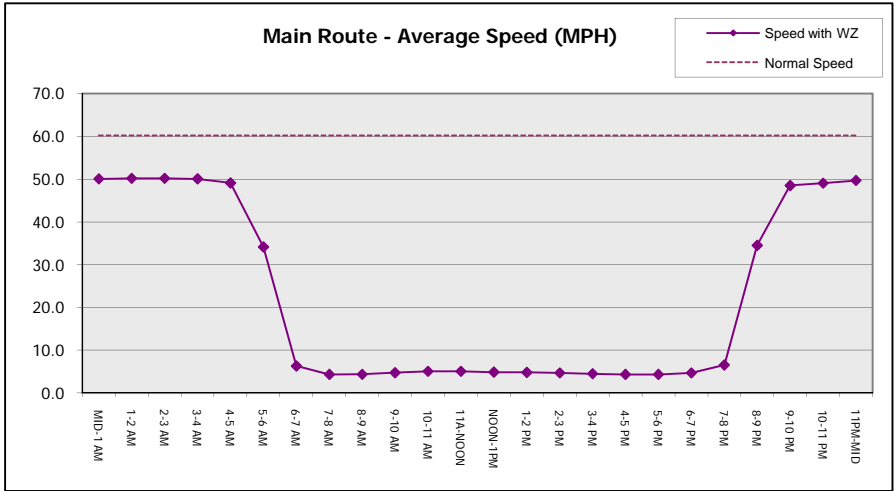
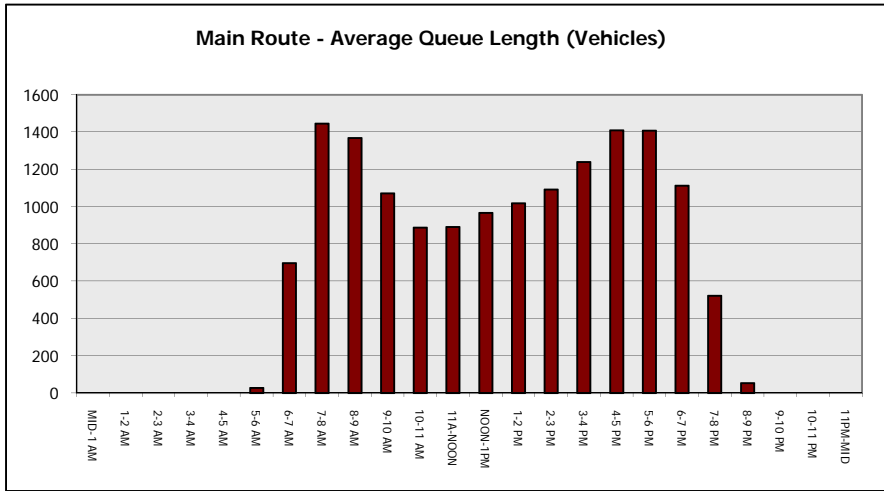
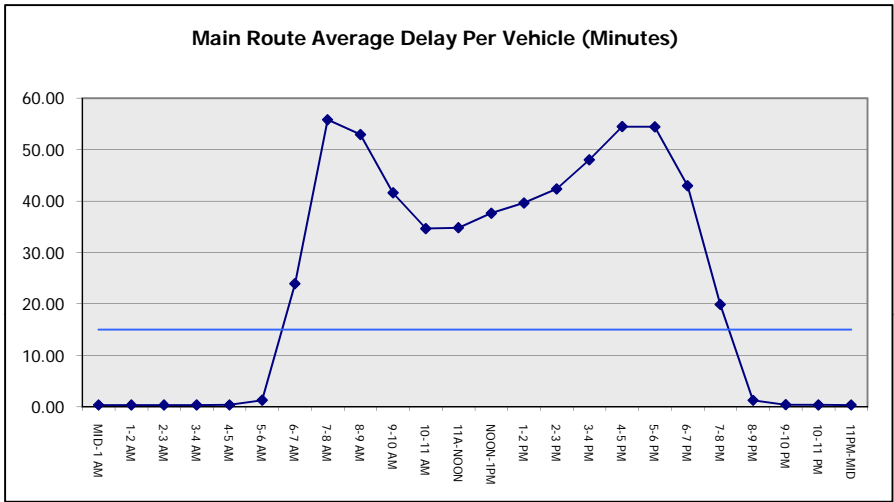
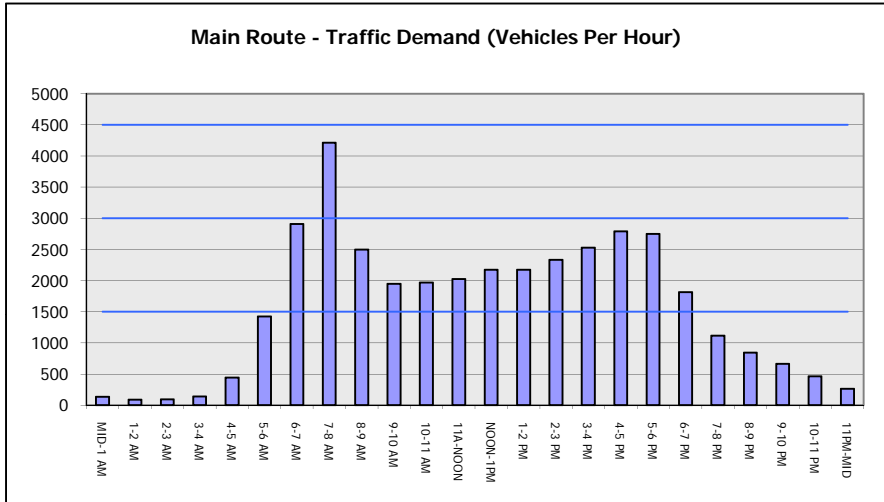
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$355,627
CONGESTED HOURS PER DAY*	14

*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
MON-THUR WESTBOUND DIRECTION



STH 172: USH 41 TO STH 57 (BROWN COUNTY) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: STH 32, STH 57	OCTOBER
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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	225	0.0	64	0.0	1500	225	0	64	0.36	0	60.2	49.8	44.6	21.7	21.7
1-2 AM	142	0.0	40	0.0	1500	142	0	40	0.35	0	60.2	50.1	44.9	22.4	22.4
2-3 AM	139	0.0	40	0.0	1500	139	0	40	0.35	0	60.2	50.1	45.0	22.4	22.4
3-4 AM	155	0.0	44	0.0	1500	155	0	44	0.35	0	60.2	50.0	44.8	22.3	22.3
4-5 AM	265	0.0	74	0.0	1500	265	0	74	0.36	0	60.2	49.7	44.4	21.4	21.4
5-6 AM	678	0.0	191	0.0	1500	678	0	191	0.41	0	60.2	48.4	42.8	17.9	17.9
6-7 AM	1436	0.0	405	0.0	1499	1436	0	405	1.17	12	60.2	35.7	33.5	11.7	12.1
7-8 AM	2004	0.0	566	0.0	1500	2004	0	566	10.47	289	60.2	9.5	30.8	9.9	10.2
8-9 AM	1853	0.0	523	0.0	1499	1853	0	523	28.97	743	60.2	5.5	30.8	10.4	11.9
9-10 AM	1608	0.0	454	0.0	1499	1510	98	552	35.93	921	60.2	5.0	30.8	11.2	11.9
10-11 AM	1632	0.0	461	0.0	1499	1536	97	558	36.19	928	60.2	5.0	30.8	11.1	11.9
11A-NOON	1820	0.0	514	0.0	1499	1691	129	643	40.41	1040	60.2	4.8	30.8	10.5	10.9
NOON-1PM	2037	0.0	576	0.0	1499	1796	241	816+	50.00	1293	60.2	4.5	30.8	9.7	9.5
1-2 PM	2106	0.0	594	0.0	1499	1495	611	1205+	53.75	1391	60.2	4.4	30.8	9.6	9.1
2-3 PM	2423	0.0	684	0.0	1499	1499	923	1608+	53.85	1393	60.2	4.4	30.8	8.5	9.0
3-4 PM	3340	0.0	943	0.0	1499	1509	1831	2774+	55.71	1442	60.2	4.3	30.8	6.8	8.8
4-5 PM	4113	0.0	1162	0.0	1499	1500	2613	3775+	55.79	1445	60.2	4.3	30.8	6.8	8.8
5-6 PM	3587	0.0	1013	0.0	1499	1500	2087	3100+	55.79	1445	60.2	4.3	30.8	6.8	8.8
6-7 PM	2205	0.0	623	0.0	1499	1470	735	1357+	53.71	1390	60.2	4.4	30.8	9.2	9.1
7-8 PM	1554	0.0	440	0.0	1499	1188	367	806+	49.49	1280	60.2	4.5	30.8	11.4	9.6
8-9 PM	1305	0.0	368	0.0	1499	1136	169	537	35.47	912	60.2	5.0	30.8	12.7	12.0
9-10 PM	1222	0.0	345	0.0	1499	1222	0	345	24.19	616	60.2	5.9	30.8	13.4	14.8
10-11 PM	729	0.0	206	0.0	1499	729	0	206	2.46	152	60.2	25.6	40.6	17.5	17.8
11PM-MID	502	0.0	141	0.0	1500	502	0	141	0.39	0	60.2	48.9	43.5	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	0.0056
DIVERSION	0.1471

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$368,218
CONGESTED HOURS PER DAY*	14

*Delays Exceeding 15 Minutes

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

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

