

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

SATURDAY 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	281	0.0	80	0.0	OFF	281	0	80	0.00	0	60.2	60.2	60.2	22.4	22.4
1-2 AM	166	0.0	47	0.0	OFF	166	0	47	0.00	0	60.2	60.2	60.2	22.9	22.9
2-3 AM	143	0.0	41	0.0	OFF	143	0	41	0.00	0	60.2	60.2	60.2	23.0	23.0
3-4 AM	127	0.0	36	0.0	OFF	127	0	36	0.00	0	60.2	60.2	60.2	23.1	23.1
4-5 AM	224	0.0	63	0.0	OFF	224	0	63	0.00	0	60.2	60.2	60.2	22.7	22.7
5-6 AM	422	0.0	119	0.0	OFF	422	0	119	0.00	0	60.2	60.2	60.2	21.9	21.9
6-7 AM	731	0.0	206	0.0	OFF	731	0	206	0.00	0	60.2	60.2	60.2	20.6	20.6
7-8 AM	1101	0.0	311	0.0	OFF	1101	0	311	0.00	0	60.2	60.2	60.2	19.1	19.1
8-9 AM	1689	0.0	477	0.0	1499	1689	0	477	2.84	66	60.2	22.5	30.8	16.6	16.6
9-10 AM	2016	0.0	569	0.0	1500	2001	15	584	16.34	430	60.2	7.3	30.8	15.3	16.0
10-11 AM	2183	0.0	616	0.0	1499	1801	383	999	33.68	864	60.2	5.2	30.8	14.6	12.5
11A-NOON	2371	0.0	670	0.0	1499	1680	691	1361	42.20	1087	60.2	4.7	30.8	13.8	10.6
NOON-1PM	2397	0.0	677	0.0	1499	1551	846	1523+	46.75	1206	60.2	4.6	30.8	13.7	9.9
1-2 PM	2261	0.0	638	0.0	1499	1416	845	1483+	45.78	1181	60.2	4.6	30.8	14.3	10.1
2-3 PM	2196	0.0	621	0.0	1499	1431	764	1385	42.90	1105	60.2	4.7	30.8	14.5	10.5
3-4 PM	2118	0.0	599	0.0	1499	1429	690	1288	40.13	1032	60.2	4.8	30.8	14.9	11.0
4-5 PM	2108	0.0	595	0.0	1499	1479	630	1225	38.50	989	60.2	4.9	30.8	14.9	11.3
5-6 PM	2062	0.0	582	0.0	1499	1460	602	1184	37.50	962	60.2	4.9	30.8	15.2	11.6
6-7 PM	1886	0.0	533	0.0	OFF	1886	0	533	1.07	106	60.2	36.9	36.9	15.8	15.8
7-8 PM	1416	0.0	400	0.0	OFF	1416	0	400	0.00	0	60.2	60.2	60.2	17.8	17.8
8-9 PM	1161	0.0	328	0.0	OFF	1161	0	328	0.00	0	60.2	60.2	60.2	18.8	18.8
9-10 PM	936	0.0	265	0.0	OFF	936	0	265	0.00	0	60.2	60.2	60.2	19.7	19.7
10-11 PM	668	0.0	188	0.0	OFF	668	0	188	0.00	0	60.2	60.2	60.2	20.9	20.9
11PM-MID	461	0.0	130	0.0	OFF	461	0	130	0.00	0	60.2	60.2	60.2	21.7	21.7

"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	0.0084
MAIN ROUTE WITH WORKS	0.0059
DIVERSION	0.1029

PIA: Personal Injury Accidents

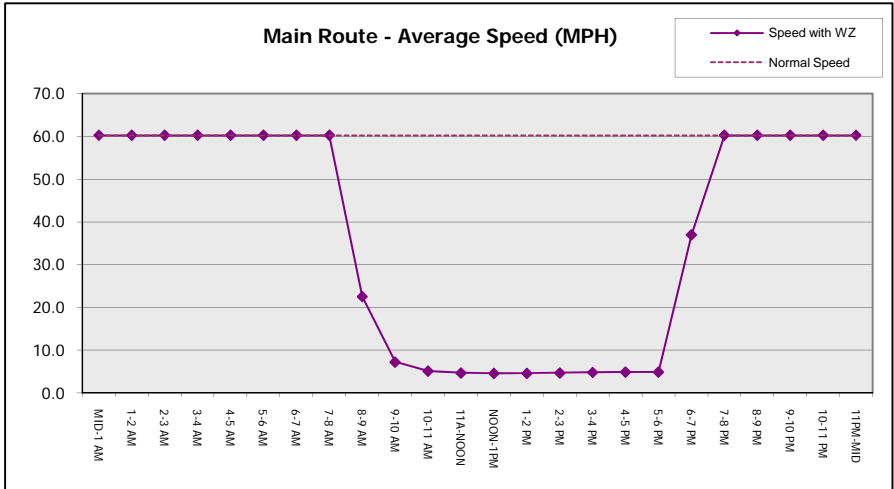
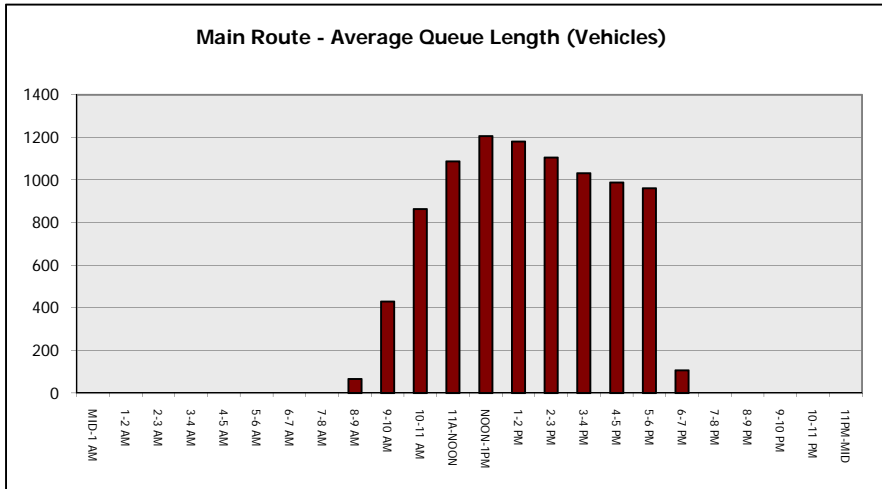
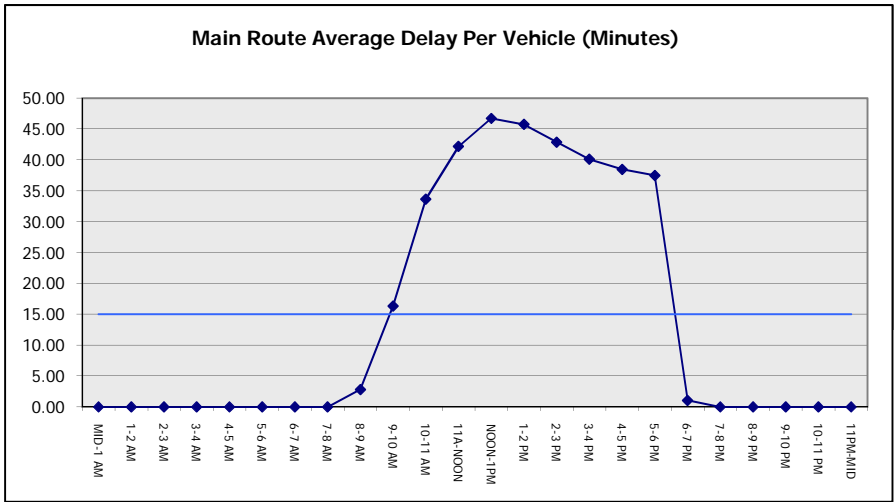
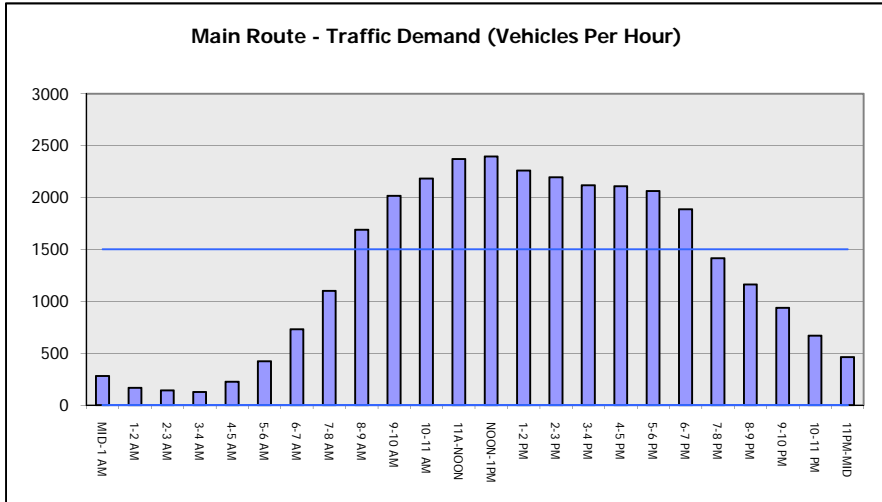
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$229,660
CONGESTED HOURS PER DAY*	9

*Delays Exceeding 15 Minutes

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

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY 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	
SATURDAY	EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							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	459	0.0	130	0.0	OFF	459	0	130	0.00	0	60.2	60.2	60.2	19.7	19.7
1-2 AM	248	0.0	70	0.0	OFF	248	0	70	0.00	0	60.2	60.2	60.2	21.5	21.5
2-3 AM	236	0.0	67	0.0	OFF	236	0	67	0.00	0	60.2	60.2	60.2	21.6	21.6
3-4 AM	327	0.0	92	0.0	OFF	327	0	92	0.00	0	60.2	60.2	60.2	20.9	20.9
4-5 AM	323	0.0	91	0.0	OFF	323	0	91	0.00	0	60.2	60.2	60.2	20.9	20.9
5-6 AM	392	0.0	111	0.0	OFF	392	0	111	0.00	0	60.2	60.2	60.2	20.3	20.3
6-7 AM	465	0.0	131	0.0	OFF	465	0	131	0.00	0	60.2	60.2	60.2	19.7	19.7
7-8 AM	658	0.0	186	0.0	OFF	658	0	186	0.00	0	60.2	60.2	60.2	18.1	18.1
8-9 AM	1094	0.0	309	0.0	1500	1094	0	309	0.46	0	60.2	47.3	41.4	14.5	14.5
9-10 AM	1296	0.0	366	0.0	1499	1296	0	366	0.69	0	60.2	42.8	35.9	12.8	12.8
10-11 AM	2011	0.0	568	0.0	1499	2011	0	568	7.80	228	60.2	11.7	30.8	9.8	10.1
11A-NOON	2171	0.0	613	0.0	1500	2167	4	617	32.39	843	60.2	5.3	30.8	9.3	10.9
NOON-1PM	2067	0.0	584	0.0	1499	1735	331	915+	51.43	1330	60.2	4.5	30.8	9.7	9.3
1-2 PM	1986	0.0	561	0.0	1499	1497	489	1050+	53.71	1390	60.2	4.4	30.8	9.9	9.1
2-3 PM	2039	0.0	576	0.0	1499	1498	542	1117+	53.73	1390	60.2	4.4	30.8	9.7	9.1
3-4 PM	2026	0.0	572	0.0	1499	1498	529	1101+	53.72	1390	60.2	4.4	30.8	9.8	9.1
4-5 PM	1991	0.0	562	0.0	1499	1498	493	1055+	53.71	1390	60.2	4.4	30.8	9.9	9.1
5-6 PM	1951	0.0	551	0.0	1499	1498	453	1005+	53.70	1389	60.2	4.4	30.8	10.1	9.1
6-7 PM	1928	0.0	544	0.0	OFF	1928	0	544	2.41	241	60.2	24.8	24.8	10.1	10.1
7-8 PM	1457	0.0	411	0.0	OFF	1457	0	411	0.00	0	60.2	60.2	60.2	11.7	11.7
8-9 PM	1251	0.0	354	0.0	OFF	1251	0	354	0.00	0	60.2	60.2	60.2	13.2	13.2
9-10 PM	1214	0.0	343	0.0	OFF	1214	0	343	0.00	0	60.2	60.2	60.2	13.5	13.5
10-11 PM	878	0.0	248	0.0	OFF	878	0	248	0.00	0	60.2	60.2	60.2	16.3	16.3
11PM-MID	803	0.0	227	0.0	OFF	803	0	227	0.00	0	60.2	60.2	60.2	16.9	16.9

"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	0.0079
MAIN ROUTE WITH WORKS	0.0061
DIVERSION	0.0802

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$220,231
CONGESTED HOURS PER DAY*	7

*Delays Exceeding 15 Minutes

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

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

