

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

MAY
 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	340	0.0	96	0.0	OFF	340	0	96	0.00	0	60.2	60.2	60.2	22.2	22.2
1-2 AM	183	0.0	51	0.0	OFF	183	0	51	0.00	0	60.2	60.2	60.2	22.9	22.9
2-3 AM	127	0.0	36	0.0	OFF	127	0	36	0.00	0	60.2	60.2	60.2	23.1	23.1
3-4 AM	116	0.0	32	0.0	OFF	116	0	32	0.00	0	60.2	60.2	60.2	23.1	23.1
4-5 AM	164	0.0	46	0.0	OFF	164	0	46	0.00	0	60.2	60.2	60.2	22.9	22.9
5-6 AM	264	0.0	74	0.0	OFF	264	0	74	0.00	0	60.2	60.2	60.2	22.5	22.5
6-7 AM	368	0.0	104	0.0	OFF	368	0	104	0.00	0	60.2	60.2	60.2	22.1	22.1
7-8 AM	581	0.0	164	0.0	OFF	581	0	164	0.00	0	60.2	60.2	60.2	21.2	21.2
8-9 AM	788	0.0	223	0.0	OFF	788	0	223	0.00	0	60.2	60.2	60.2	20.4	20.4
9-10 AM	1365	0.0	385	0.0	1499	1365	0	385	0.78	0	60.2	41.2	34.1	18.0	18.0
10-11 AM	1786	0.0	504	0.0	1499	1786	0	504	4.80	126	60.2	16.0	30.8	16.3	16.3
11A-NOON	1881	0.0	532	0.0	1499	1864	17	548	18.11	463	60.2	6.8	30.8	15.8	16.6
NOON-1PM	2134	0.0	603	0.0	1499	1794	340	942	32.31	828	60.2	5.2	30.8	14.8	12.9
1-2 PM	1996	0.0	564	0.0	1499	1445	551	1115	35.94	921	60.2	5.0	30.8	15.4	11.9
2-3 PM	1853	0.0	523	0.0	1499	1410	443	966	32.95	843	60.2	5.2	30.8	16.0	12.7
3-4 PM	1727	0.0	488	0.0	1499	1415	312	799	29.68	756	60.2	5.4	30.8	16.5	13.7
4-5 PM	1681	0.0	475	0.0	1499	1441	240	715	26.89	683	60.2	5.6	30.8	16.7	14.7
5-6 PM	1646	0.0	465	0.0	1500	1451	195	659	25.23	639	60.2	5.8	30.8	16.8	15.5
6-7 PM	1349	0.0	381	0.0	1499	1284	65	446	19.94	503	60.2	6.5	30.8	18.1	18.3
7-8 PM	941	0.0	266	0.0	OFF	941	0	266	0.15	15	60.2	55.3	55.3	19.7	19.7
8-9 PM	750	0.0	211	0.0	OFF	750	0	211	0.00	0	60.2	60.2	60.2	20.5	20.5
9-10 PM	554	0.0	156	0.0	OFF	554	0	156	0.00	0	60.2	60.2	60.2	21.3	21.3
10-11 PM	445	0.0	126	0.0	OFF	445	0	126	0.00	0	60.2	60.2	60.2	21.8	21.8
11PM-MID	157	0.0	44	0.0	OFF	157	0	44	0.00	0	60.2	60.2	60.2	23.0	23.0

"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	0.0063
MAIN ROUTE WITH WORKS	0.0047
DIVERSION	0.0629

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$126,539
CONGESTED HOURS PER DAY*	8

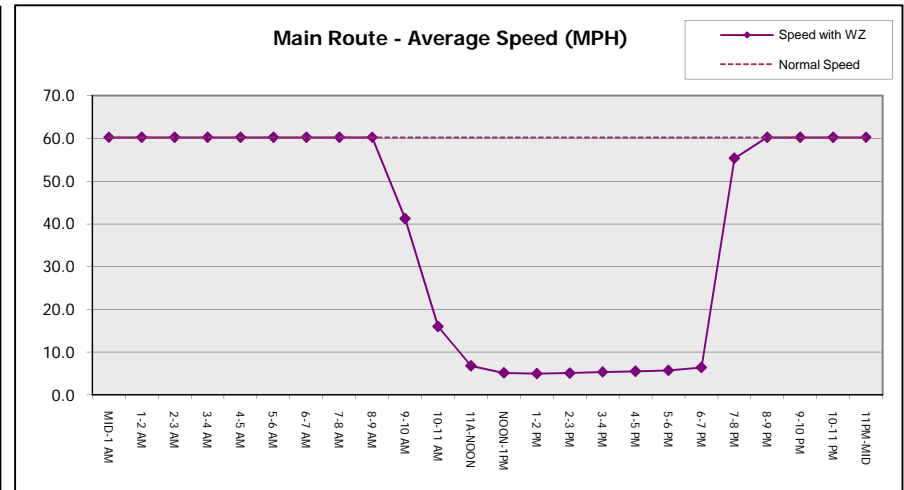
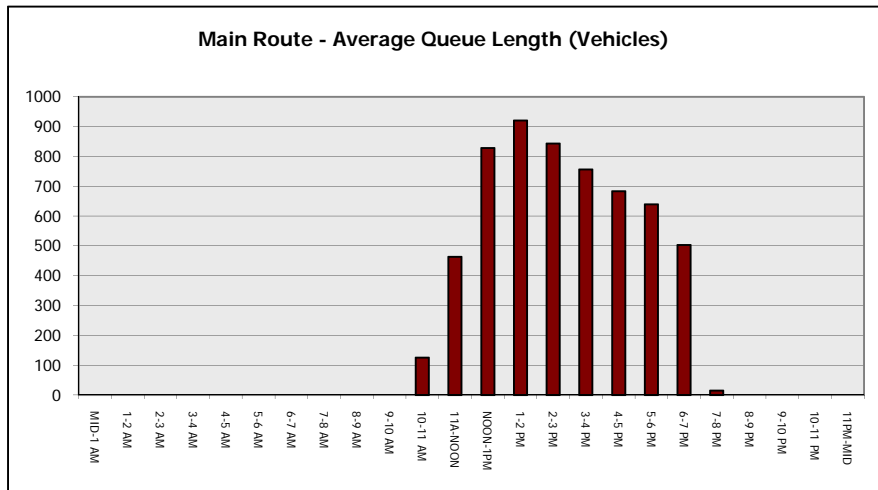
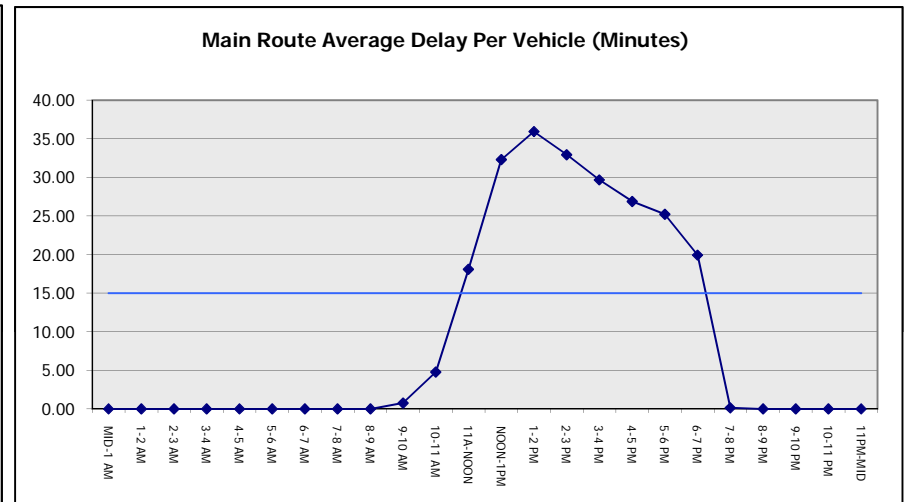
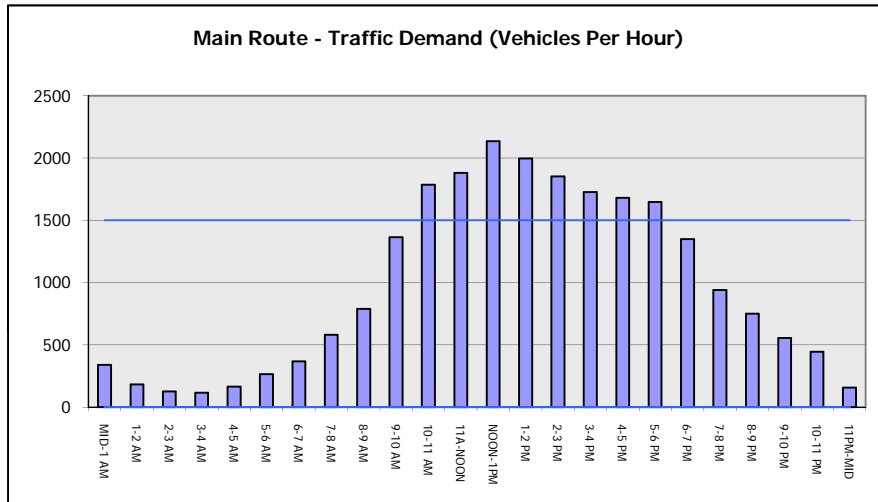
*Delays Exceeding 15 Minutes

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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	MAY
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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						
	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	420	0.0	118	0.0	OFF	420	0	118	0.00	0	60.2	60.2	60.2	21.9	21.9
1-2 AM	314	0.0	89	0.0	OFF	314	0	89	0.00	0	60.2	60.2	60.2	22.3	22.3
2-3 AM	272	0.0	77	0.0	OFF	272	0	77	0.00	0	60.2	60.2	60.2	22.5	22.5
3-4 AM	199	0.0	57	0.0	OFF	199	0	57	0.00	0	60.2	60.2	60.2	22.8	22.8
4-5 AM	145	0.0	41	0.0	OFF	145	0	41	0.00	0	60.2	60.2	60.2	23.0	23.0
5-6 AM	169	0.0	48	0.0	OFF	169	0	48	0.00	0	60.2	60.2	60.2	22.9	22.9
6-7 AM	354	0.0	100	0.0	OFF	354	0	100	0.00	0	60.2	60.2	60.2	22.1	22.1
7-8 AM	480	0.0	136	0.0	OFF	480	0	136	0.00	0	60.2	60.2	60.2	21.6	21.6
8-9 AM	746	0.0	210	0.0	OFF	746	0	210	0.00	0	60.2	60.2	60.2	20.6	20.6
9-10 AM	992	0.0	280	0.0	1499	992	0	280	0.45	0	60.2	47.6	41.7	19.5	19.5
10-11 AM	1469	0.0	415	0.0	1499	1469	0	415	1.14	7	60.2	36.0	32.2	17.6	17.6
11A-NOON	1748	0.0	494	0.0	1500	1748	0	494	5.64	141	60.2	14.2	30.8	16.4	16.5
NOON-1PM	1916	0.0	541	0.0	1500	1894	21	562	18.52	476	60.2	6.8	30.8	15.7	16.5
1-2 PM	2046	0.0	578	0.0	1499	1730	316	894	31.34	802	60.2	5.3	30.8	15.2	13.2
2-3 PM	2280	0.0	643	0.0	1499	1680	600	1243	38.99	1002	60.2	4.8	30.8	14.2	11.2
3-4 PM	2259	0.0	638	0.0	1499	1523	736	1375	42.58	1096	60.2	4.7	30.8	14.3	10.6
4-5 PM	2306	0.0	651	0.0	1499	1532	774	1425	44.16	1138	60.2	4.7	30.8	14.1	10.3
5-6 PM	1946	0.0	549	0.0	1499	1245	701	1251	39.24	1010	60.2	4.8	30.8	15.6	11.2
6-7 PM	1759	0.0	497	0.0	1499	1350	409	906	31.90	815	60.2	5.2	30.8	16.3	13.0
7-8 PM	1276	0.0	360	0.0	OFF	1276	0	360	0.57	57	60.2	45.1	45.1	18.4	18.4
8-9 PM	987	0.0	278	0.0	OFF	987	0	278	0.00	0	60.2	60.2	60.2	19.6	19.6
9-10 PM	747	0.0	211	0.0	OFF	747	0	211	0.00	0	60.2	60.2	60.2	20.5	20.5
10-11 PM	523	0.0	148	0.0	OFF	523	0	148	0.00	0	60.2	60.2	60.2	21.4	21.4
11PM-MID	323	0.0	91	0.0	OFF	323	0	91	0.00	0	60.2	60.2	60.2	22.3	22.3

"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	0.0070
MAIN ROUTE WITH WORKS	0.0050
DIVERSION	0.0780

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$163,913
CONGESTED HOURS PER DAY*	7

*Delays Exceeding 15 Minutes

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

SUNDAY EASTBOUND DIRECTION

