

IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: CARMICHAEL RD - STAGELINE RD - USH 12	AUGUST
	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	447	0.0	29	0.0	1500	447	0	29	0.53	0	70.2	47.6	43.7	19.7	19.7
1-2 AM	315	0.0	21	0.0	1500	315	0	21	0.51	0	70.2	48.1	44.2	19.7	19.7
2-3 AM	242	0.0	16	0.0	1500	242	0	16	0.50	0	70.2	48.3	44.5	19.7	19.7
3-4 AM	240	0.0	16	0.0	1500	240	0	16	0.50	0	70.2	48.3	44.5	19.7	19.7
4-5 AM	247	0.0	16	0.0	1500	247	0	16	0.50	0	70.2	48.3	44.5	19.7	19.7
5-6 AM	287	0.0	19	0.0	1500	287	0	19	0.51	0	70.2	48.1	44.3	19.7	19.7
6-7 AM	383	0.0	25	0.0	1500	383	0	25	0.52	0	70.2	47.8	44.0	19.7	19.7
7-8 AM	615	0.0	41	0.0	1500	615	0	41	0.55	0	70.0	46.9	43.1	19.6	19.6
8-9 AM	969	0.0	64	0.0	1499	969	0	64	0.58	0	69.6	45.7	41.8	19.5	19.5
9-10 AM	1440	0.0	95	0.0	OFF	1440	0	95	0.00	0	68.9	68.9	68.9	19.3	19.3
10-11 AM	2167	0.0	144	0.0	OFF	2167	0	144	0.00	0	68.1	68.1	68.1	19.0	19.0
11A-NOON	2793	0.0	185	0.0	OFF	2793	0	185	0.00	0	67.3	67.3	67.3	18.8	18.8
NOON-1PM	3181	0.0	211	0.0	OFF	3181	0	211	0.00	0	66.8	66.8	66.8	18.6	18.6
1-2 PM	3788	0.0	251	0.0	OFF	3788	0	251	0.00	0	65.0	65.0	65.0	18.3	18.3
2-3 PM	4393	0.0	291	0.0	OFF	4393	0	291	0.00	0	60.9	60.9	60.9	18.1	18.1
3-4 PM	4682	0.0	310	0.0	OFF	4682	0	310	0.00	0	58.9	58.9	58.9	17.9	17.9
4-5 PM	4915	0.0	325	0.0	OFF	4915	0	325	0.00	0	57.3	57.3	57.3	17.8	17.8
5-6 PM	4608	0.0	305	0.0	OFF	4608	0	305	0.00	0	59.4	59.4	59.4	18.0	18.0
6-7 PM	4048	0.0	268	0.0	OFF	4048	0	268	0.00	0	63.2	63.2	63.2	18.2	18.2
7-8 PM	3446	0.0	228	0.0	1499	1847	1598	1826+	13.42	331	66.4	7.3	32.9	18.4	12.6
8-9 PM	2836	0.0	188	0.0	1499	1464	1373	1561	14.69	357	67.2	7.0	30.8	18.7	11.7
9-10 PM	2058	0.0	136	0.0	1500	1375	683	819	9.60	225	68.2	8.8	30.8	19.0	16.0
10-11 PM	1374	0.0	91	0.0	1500	1337	37	128	5.44	125	69.1	12.7	32.3	19.3	19.6
11PM-MID	964	0.0	64	0.0	1500	963	0	64	0.60	0	69.6	45.2	41.8	19.5	19.5

"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 (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	0.0104
MAIN ROUTE WITH WORKS	0.0090
DIVERSION	0.0214

PIA: Personal Injury Accidents

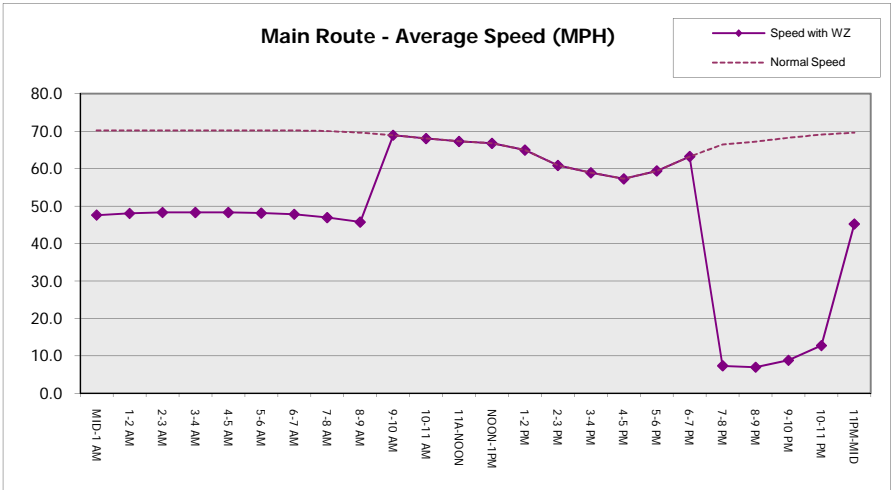
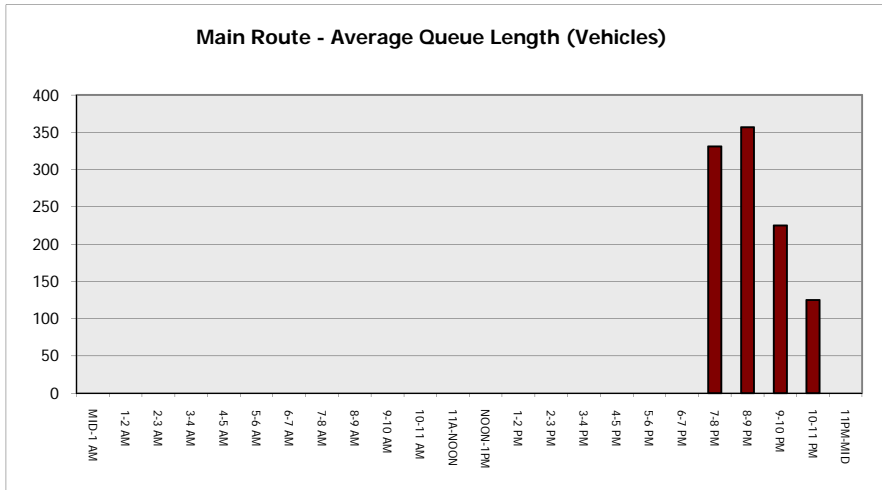
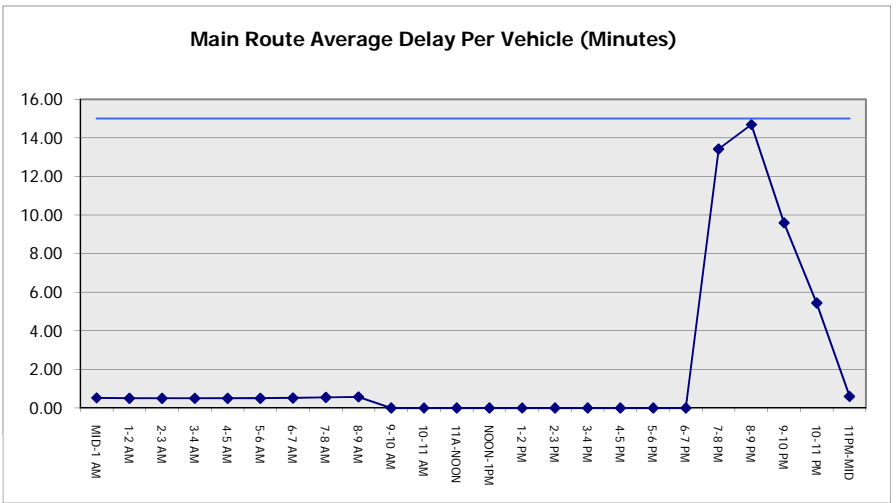
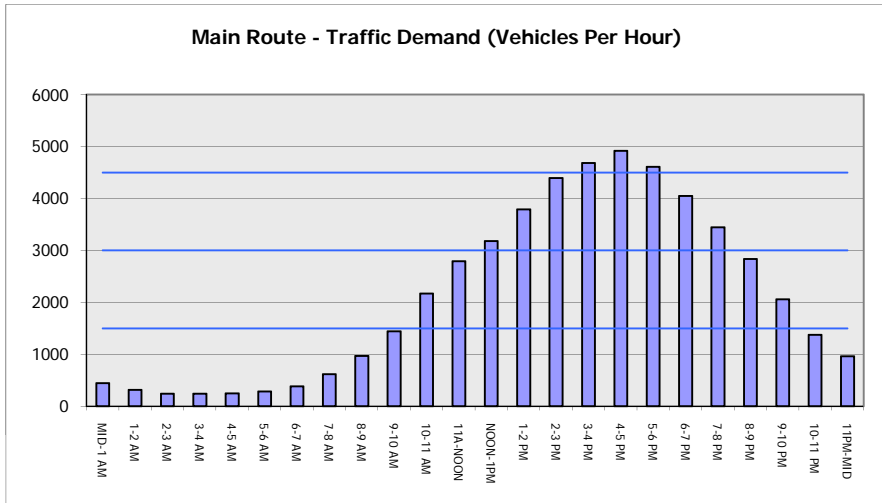
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$33,096
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

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NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: CARMICHAEL RD - STAGELINE RD - USH 12

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: CARMICHAEL RD - STAGELINE RD - USH 12	AUGUST
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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 DIVER -TING	TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	ALTERNATE ROUTE		
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN	
MID-1 AM	435	0.0	29	0.0	1500	435	0	29	0.53	0	70.2	47.6	43.8	19.7	19.7	
1-2 AM	286	0.0	19	0.0	1500	286	0	19	0.51	0	70.2	48.1	44.3	19.7	19.7	
2-3 AM	217	0.0	14	0.0	1500	217	0	14	0.50	0	70.2	48.4	44.6	19.8	19.8	
3-4 AM	184	0.0	12	0.0	1500	184	0	12	0.49	0	70.2	48.6	44.8	19.8	19.8	
4-5 AM	195	0.0	13	0.0	1500	195	0	13	0.50	0	70.2	48.5	44.7	19.8	19.8	
5-6 AM	306	0.0	21	0.0	1500	306	0	21	0.51	0	70.2	48.1	44.3	19.7	19.7	
6-7 AM	643	0.0	42	0.0	1500	643	0	42	0.55	0	69.9	46.9	43.0	19.6	19.6	
7-8 AM	1089	0.0	72	0.0	1499	1089	0	72	0.65	0	69.4	44.0	40.0	19.4	19.4	
8-9 AM	1609	0.0	107	0.0	1499	1609	0	107	1.85	33	68.7	26.1	31.3	19.2	19.2	
9-10 AM	2372	0.0	157	0.0	OFF	2372	0	157	0.03	2	67.8	66.2	66.2	18.9	18.9	
10-11 AM	3047	0.0	202	0.0	OFF	3047	0	202	0.00	0	66.9	66.9	66.9	18.6	18.6	
11A-NOON	3190	0.0	211	0.0	OFF	3190	0	211	0.00	0	66.8	66.8	66.8	18.6	18.6	
NOON-1PM	3518	0.0	233	0.0	OFF	3518	0	233	0.00	0	66.4	66.4	66.4	18.4	18.4	
1-2 PM	3447	0.0	228	0.0	OFF	3447	0	228	0.00	0	66.4	66.4	66.4	18.4	18.4	
2-3 PM	3146	0.0	209	0.0	OFF	3146	0	209	0.00	0	66.8	66.8	66.8	18.6	18.6	
3-4 PM	3026	0.0	200	0.0	OFF	3026	0	200	0.00	0	66.9	66.9	66.9	18.6	18.6	
4-5 PM	2916	0.0	193	0.0	OFF	2916	0	193	0.00	0	67.1	67.1	67.1	18.7	18.7	
5-6 PM	2553	0.0	169	0.0	OFF	2553	0	169	0.00	0	67.6	67.6	67.6	18.8	18.8	
6-7 PM	2289	0.0	151	0.0	OFF	2289	0	151	0.00	0	67.9	67.9	67.9	18.9	18.9	
7-8 PM	1929	0.0	128	0.0	1499	1682	247	375	7.19	165	68.3	10.6	31.2	19.1	18.3	
8-9 PM	1613	0.0	107	0.0	1500	1474	139	246	7.46	166	68.7	10.3	30.8	19.2	19.2	
9-10 PM	1139	0.0	76	0.0	1499	1139	0	76	1.54	46	69.3	29.6	37.6	19.4	19.5	
10-11 PM	788	0.0	52	0.0	1500	788	0	52	0.56	0	69.7	46.3	42.4	19.6	19.6	
11PM-MID	543	0.0	36	0.0	1500	543	0	36	0.54	0	70.0	47.2	43.3	19.6	19.6	

"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	0.0084
MAIN ROUTE WITH WORKS	0.0076
DIVERSION	0.0094

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$9,370
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY)
NIGHTTIME 2 LANE CLOSURE
DIVERSION ROUTE: CARMICHAEL RD - STAGELINE RD - USH 12

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

