

IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY) OFF-PEAK DAY 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	OFF	447	0	29	0.00	0	70.2	70.2	70.2	19.7	19.7
1-2 AM	315	0.0	21	0.0	OFF	315	0	21	0.00	0	70.2	70.2	70.2	19.7	19.7
2-3 AM	242	0.0	16	0.0	OFF	242	0	16	0.00	0	70.2	70.2	70.2	19.7	19.7
3-4 AM	240	0.0	16	0.0	OFF	240	0	16	0.00	0	70.2	70.2	70.2	19.7	19.7
4-5 AM	247	0.0	16	0.0	OFF	247	0	16	0.00	0	70.2	70.2	70.2	19.7	19.7
5-6 AM	287	0.0	19	0.0	OFF	287	0	19	0.00	0	70.2	70.2	70.2	19.7	19.7
6-7 AM	383	0.0	25	0.0	OFF	383	0	25	0.00	0	70.2	70.2	70.2	19.7	19.7
7-8 AM	615	0.0	41	0.0	OFF	615	0	41	0.00	0	70.0	70.0	70.0	19.6	19.6
8-9 AM	969	0.0	64	0.0	OFF	969	0	64	0.00	0	69.6	69.6	69.6	19.5	19.5
9-10 AM	1440	0.0	95	0.0	1499	1440	0	95	1.26	11	68.9	32.5	33.3	19.3	19.3
10-11 AM	2167	0.0	144	0.0	1500	1699	468	612	8.48	203	68.1	9.6	30.8	19.0	17.1
11A-NOON	2793	0.0	185	0.0	1500	1618	1175	1360	12.84	310	67.3	7.5	30.8	18.8	12.9
NOON-1PM	3181	0.0	211	0.0	1499	1543	1638	1848+	16.14	395	66.8	6.6	30.8	18.6	11.0
1-2 PM	3788	0.0	251	0.0	1500	1500	2288	2539+	16.37	402	65.0	6.6	30.8	18.3	10.9
2-3 PM	4393	0.0	291	0.0	1500	1500	2893	3183+	16.25	402	60.9	6.6	30.8	18.1	10.9
3-4 PM	4682	0.0	310	0.0	1500	1500	3182	3492+	16.18	402	58.9	6.6	30.8	17.9	10.9
4-5 PM	4915	0.0	325	0.0	1500	1500	3415	3740+	16.12	402	57.3	6.6	30.8	17.8	10.9
5-6 PM	4608	0.0	305	0.0	1500	1500	3108	3413+	16.20	402	59.4	6.6	30.8	18.0	10.9
6-7 PM	4048	0.0	268	0.0	1500	1500	2548	2816+	16.32	402	63.2	6.6	30.8	18.2	10.9
7-8 PM	3446	0.0	228	0.0	OFF	3446	0	228	0.36	32	66.4	51.0	51.0	18.4	18.4
8-9 PM	2836	0.0	188	0.0	OFF	2836	0	188	0.00	0	67.2	67.2	67.2	18.7	18.7
9-10 PM	2058	0.0	136	0.0	OFF	2058	0	136	0.00	0	68.2	68.2	68.2	19.0	19.0
10-11 PM	1374	0.0	91	0.0	OFF	1374	0	91	0.00	0	69.1	69.1	69.1	19.3	19.3
11PM-MID	964	0.0	64	0.0	OFF	964	0	64	0.00	0	69.6	69.6	69.6	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	0.0051
DIVERSION	0.0734

PIA: Personal Injury Accidents

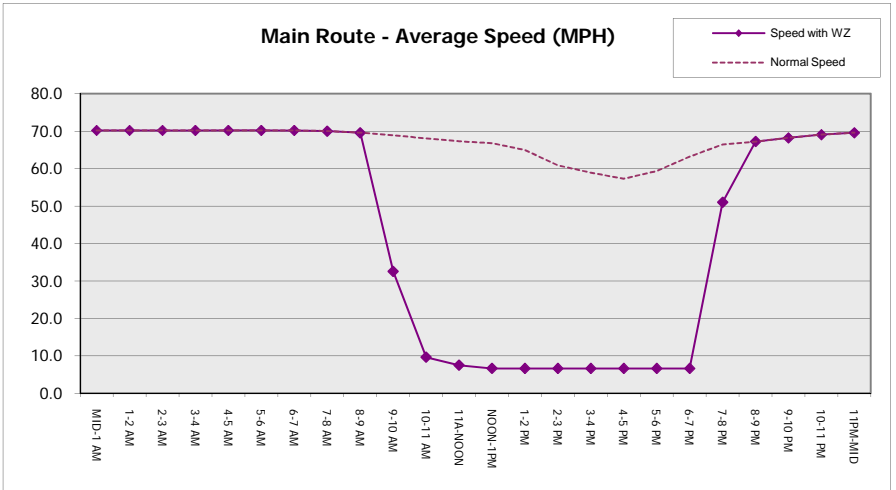
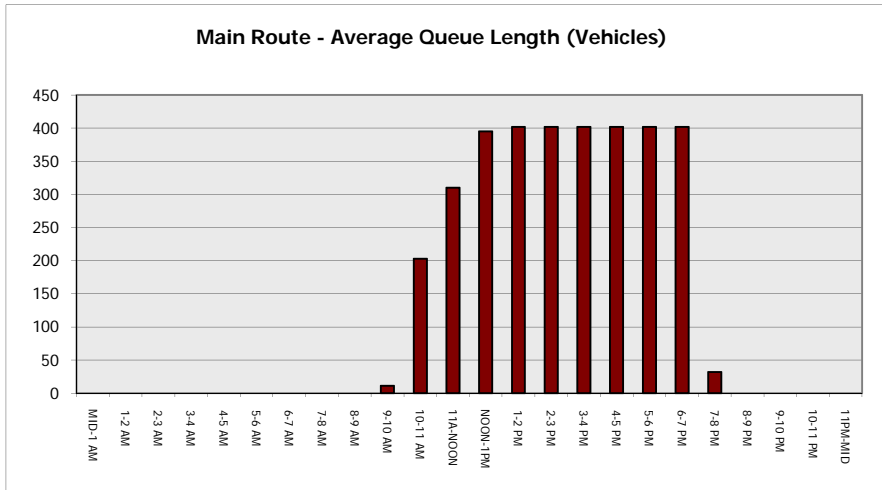
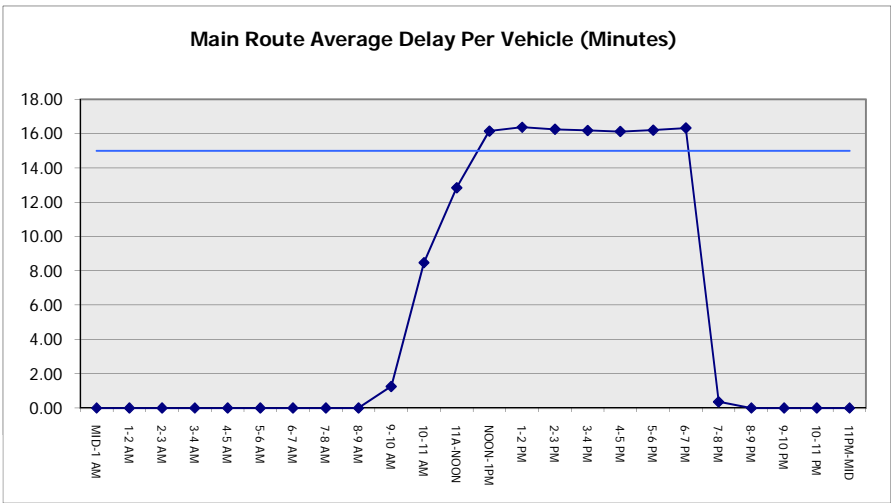
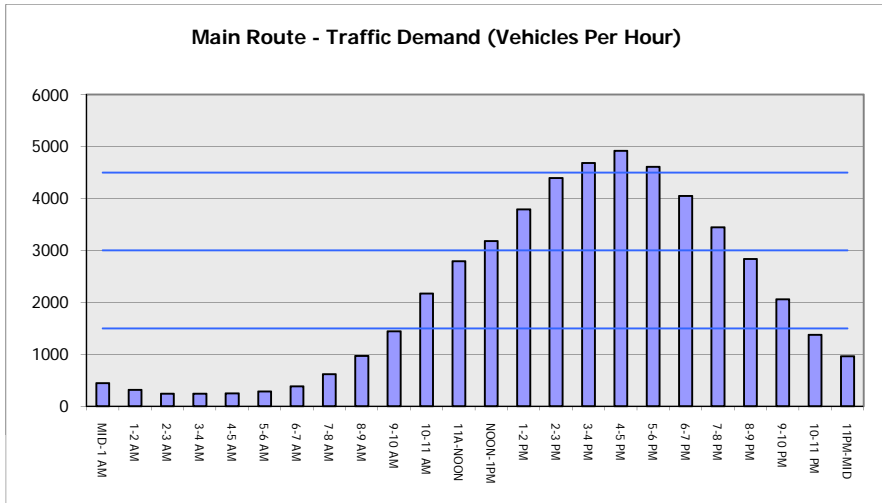
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$162,013
CONGESTED HOURS PER DAY*	7

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY 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) OFF-PEAK DAY 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			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	435	0.0	29	0.0	OFF	435	0	29	0.00	0	70.2	70.2	70.2	19.7	19.7
1-2 AM	286	0.0	19	0.0	OFF	286	0	19	0.00	0	70.2	70.2	70.2	19.7	19.7
2-3 AM	217	0.0	14	0.0	OFF	217	0	14	0.00	0	70.2	70.2	70.2	19.8	19.8
3-4 AM	184	0.0	12	0.0	OFF	184	0	12	0.00	0	70.2	70.2	70.2	19.8	19.8
4-5 AM	195	0.0	13	0.0	OFF	195	0	13	0.00	0	70.2	70.2	70.2	19.8	19.8
5-6 AM	306	0.0	21	0.0	OFF	306	0	21	0.00	0	70.2	70.2	70.2	19.7	19.7
6-7 AM	643	0.0	42	0.0	OFF	643	0	42	0.00	0	69.9	69.9	69.9	19.6	19.6
7-8 AM	1089	0.0	72	0.0	OFF	1089	0	72	0.00	0	69.4	69.4	69.4	19.4	19.4
8-9 AM	1609	0.0	107	0.0	OFF	1609	0	107	0.00	0	68.7	68.7	68.7	19.2	19.2
9-10 AM	2372	0.0	157	0.0	1499	1781	591	747	9.41	229	67.8	9.0	30.8	18.9	16.5
10-11 AM	3047	0.0	202	0.0	1500	1612	1435	1637+	14.92	364	66.9	6.9	30.8	18.6	11.6
11A-NOON	3190	0.0	211	0.0	1500	1504	1686	1897+	16.40	402	66.8	6.6	30.8	18.6	10.9
NOON-1PM	3518	0.0	233	0.0	1500	1500	2018	2251+	16.41	402	66.4	6.6	30.8	18.4	10.9
1-2 PM	3447	0.0	228	0.0	1500	1500	1947	2175+	16.41	402	66.4	6.6	30.8	18.4	10.9
2-3 PM	3146	0.0	209	0.0	1500	1502	1644	1852+	16.39	401	66.8	6.6	30.8	18.6	10.9
3-4 PM	3026	0.0	200	0.0	1500	1498	1527	1727+	16.29	399	66.9	6.6	30.8	18.6	10.9
4-5 PM	2916	0.0	193	0.0	1499	1461	1455	1649+	15.66	382	67.1	6.7	30.8	18.7	11.2
5-6 PM	2553	0.0	169	0.0	1499	1408	1145	1314	12.47	299	67.6	7.6	30.8	18.8	13.2
6-7 PM	2289	0.0	151	0.0	1500	1459	830	981	10.36	243	67.9	8.4	30.8	18.9	15.0
7-8 PM	1929	0.0	128	0.0	OFF	1929	0	128	0.07	6	68.3	64.5	64.5	19.1	19.1
8-9 PM	1613	0.0	107	0.0	OFF	1613	0	107	0.00	0	68.7	68.7	68.7	19.2	19.2
9-10 PM	1139	0.0	76	0.0	OFF	1139	0	76	0.00	0	69.3	69.3	69.3	19.4	19.4
10-11 PM	788	0.0	52	0.0	OFF	788	0	52	0.00	0	69.7	69.7	69.7	19.6	19.6
11PM-MID	543	0.0	36	0.0	OFF	543	0	36	0.00	0	70.0	70.0	70.0	19.6	19.6

"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	0.0044
DIVERSION	0.0517

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$131,544
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY)
OFF-PEAK DAY 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

