

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	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	512	0.0	34	0.0	OFF	512	0	34	0.00	0	70.1	70.1	70.1	19.7	19.7
1-2 AM	443	0.0	29	0.0	OFF	443	0	29	0.00	0	70.2	70.2	70.2	19.7	19.7
2-3 AM	485	0.0	32	0.0	OFF	485	0	32	0.00	0	70.1	70.1	70.1	19.7	19.7
3-4 AM	561	0.0	37	0.0	OFF	561	0	37	0.00	0	70.0	70.0	70.0	19.6	19.6
4-5 AM	850	0.0	56	0.0	OFF	850	0	56	0.00	0	69.7	69.7	69.7	19.5	19.5
5-6 AM	1526	0.0	101	0.0	OFF	1526	0	101	0.00	0	68.8	68.8	68.8	19.3	19.3
6-7 AM	1776	0.0	118	0.0	OFF	1776	0	118	0.00	0	68.5	68.5	68.5	19.1	19.1
7-8 AM	1922	0.0	128	0.0	OFF	1922	0	128	0.00	0	68.4	68.4	68.4	19.1	19.1
8-9 AM	1788	0.0	119	0.0	OFF	1788	0	119	0.00	0	68.5	68.5	68.5	19.1	19.1
9-10 AM	1861	0.0	123	0.0	1499	1693	168	291	5.72	132	68.4	12.3	30.8	19.1	18.6
10-11 AM	2100	0.0	139	0.0	1499	1528	572	711	9.09	209	68.1	9.1	30.8	19.0	16.5
11A-NOON	2358	0.0	156	0.0	1500	1535	823	979	10.34	242	67.8	8.4	30.8	18.9	15.0
NOON-1PM	2526	0.0	168	0.0	1499	1532	994	1162	11.39	270	67.6	8.0	30.8	18.8	14.0
1-2 PM	2917	0.0	193	0.0	1500	1600	1317	1511	14.18	344	67.1	7.1	30.8	18.7	12.0
2-3 PM	3211	0.0	213	0.0	1499	1504	1707	1920+	16.40	402	66.8	6.6	30.8	18.6	10.9
3-4 PM	3203	0.0	212	0.0	1500	1502	1700	1912+	16.41	402	66.8	6.6	30.8	18.6	10.9
4-5 PM	3163	0.0	210	0.0	OFF	3163	0	210	0.28	27	66.8	53.8	53.8	18.6	18.6
5-6 PM	2953	0.0	196	0.0	OFF	2953	0	196	0.00	0	67.1	67.1	67.1	18.6	18.6
6-7 PM	2549	0.0	169	0.0	OFF	2549	0	169	0.00	0	67.6	67.6	67.6	18.8	18.8
7-8 PM	2122	0.0	141	0.0	OFF	2122	0	141	0.00	0	68.1	68.1	68.1	19.0	19.0
8-9 PM	1809	0.0	120	0.0	OFF	1809	0	120	0.00	0	68.5	68.5	68.5	19.1	19.1
9-10 PM	1390	0.0	92	0.0	OFF	1390	0	92	0.00	0	69.0	69.0	69.0	19.3	19.3
10-11 PM	1097	0.0	72	0.0	OFF	1097	0	72	0.00	0	69.4	69.4	69.4	19.4	19.4
11PM-MID	677	0.0	44	0.0	OFF	677	0	44	0.00	0	69.9	69.9	69.9	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	0.0091
MAIN ROUTE WITH WORKS	0.0068
DIVERSION	0.0311

PIA: Personal Injury Accidents

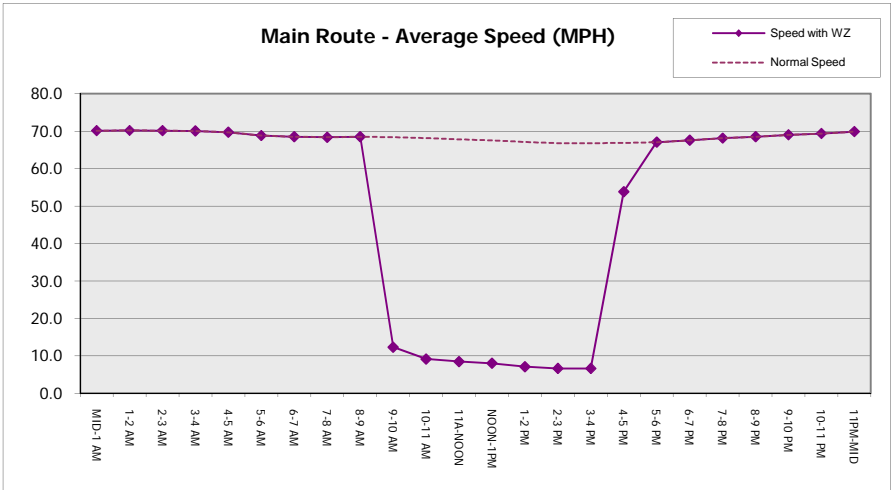
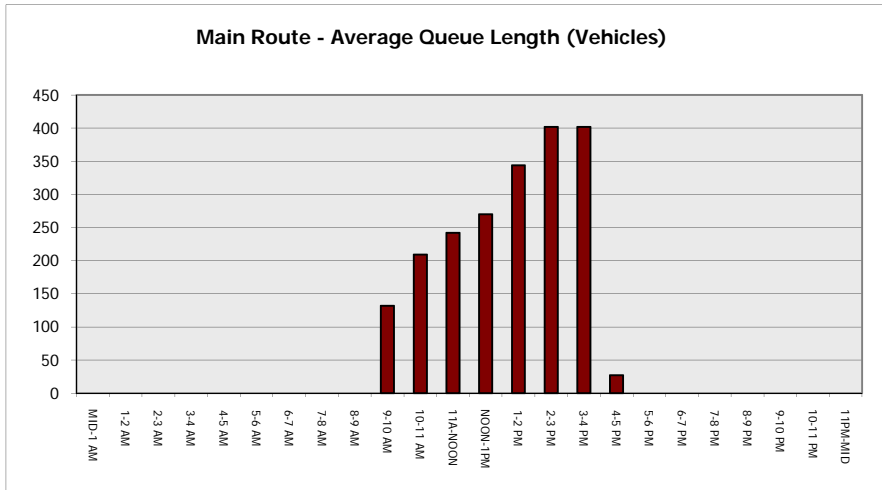
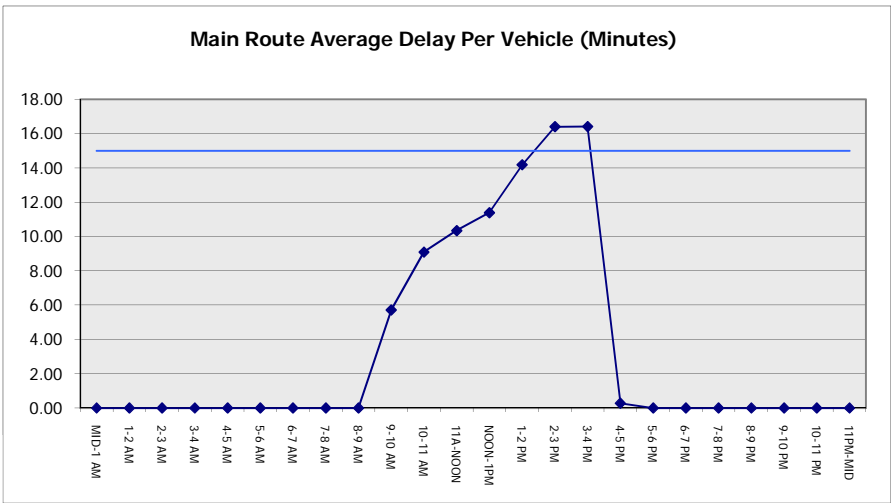
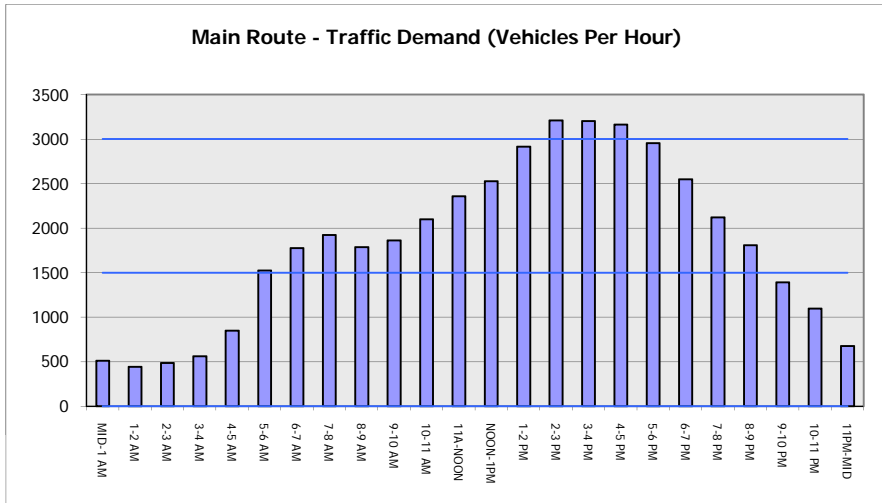
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$56,341
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

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OFF-PEAK DAY 2 LANE CLOSURE
DIVERSION ROUTE: CARMICHAEL RD - STAGELINE RD - USH 12

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY 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	OCTOBER
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SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							TOTAL			AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	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	490	0.0	32	0.0	OFF	490	0	32	0.00	0	70.1	70.1	70.1	19.7	19.7
1-2 AM	360	0.0	24	0.0	OFF	360	0	24	0.00	0	70.2	70.2	70.2	19.7	19.7
2-3 AM	281	0.0	18	0.0	OFF	281	0	18	0.00	0	70.2	70.2	70.2	19.7	19.7
3-4 AM	325	0.0	22	0.0	OFF	325	0	22	0.00	0	70.2	70.2	70.2	19.7	19.7
4-5 AM	399	0.0	26	0.0	OFF	399	0	26	0.00	0	70.2	70.2	70.2	19.7	19.7
5-6 AM	710	0.0	48	0.0	OFF	710	0	48	0.00	0	69.9	69.9	69.9	19.6	19.6
6-7 AM	1096	0.0	72	0.0	OFF	1096	0	72	0.00	0	69.4	69.4	69.4	19.4	19.4
7-8 AM	1715	0.0	114	0.0	OFF	1715	0	114	0.00	0	68.6	68.6	68.6	19.2	19.2
8-9 AM	1931	0.0	128	0.0	OFF	1931	0	128	0.00	0	68.3	68.3	68.3	19.1	19.1
9-10 AM	2439	0.0	161	0.0	1499	1783	655	817	9.72	236	67.7	8.8	30.8	18.9	16.0
10-11 AM	2879	0.0	190	0.0	1500	1588	1291	1481	13.89	336	67.1	7.1	30.8	18.7	12.2
11A-NOON	2940	0.0	195	0.0	1499	1509	1431	1625+	15.38	375	67.1	6.8	30.8	18.7	11.4
NOON-1PM	2995	0.0	198	0.0	1499	1520	1475	1673+	15.75	384	67.0	6.7	30.8	18.6	11.2
1-2 PM	3535	0.0	235	0.0	1499	1500	2035	2270+	16.41	402	66.3	6.6	30.8	18.4	10.9
2-3 PM	3755	0.0	249	0.0	1500	1500	2255	2504+	16.38	402	65.2	6.6	30.8	18.3	10.9
3-4 PM	3948	0.0	262	0.0	1500	1500	2448	2709+	16.34	402	63.9	6.6	30.8	18.3	10.9
4-5 PM	3892	0.0	257	0.0	OFF	3892	0	257	0.43	38	64.3	47.3	47.3	18.3	18.3
5-6 PM	3547	0.0	235	0.0	OFF	3547	0	235	0.00	0	66.3	66.3	66.3	18.4	18.4
6-7 PM	3260	0.0	216	0.0	OFF	3260	0	216	0.00	0	66.7	66.7	66.7	18.5	18.5
7-8 PM	2501	0.0	165	0.0	OFF	2501	0	165	0.00	0	67.6	67.6	67.6	18.8	18.8
8-9 PM	1635	0.0	108	0.0	OFF	1635	0	108	0.00	0	68.7	68.7	68.7	19.2	19.2
9-10 PM	1292	0.0	85	0.0	OFF	1292	0	85	0.00	0	69.1	69.1	69.1	19.3	19.3
10-11 PM	1048	0.0	69	0.0	OFF	1048	0	69	0.00	0	69.4	69.4	69.4	19.4	19.4
11PM-MID	784	0.0	52	0.0	OFF	784	0	52	0.00	0	69.7	69.7	69.7	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	0.0099
MAIN ROUTE WITH WORKS	0.0068
DIVERSION	0.0450

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$83,594
CONGESTED HOURS PER DAY*	5

*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

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

