

IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY) CONTINUOUS (24 HOUR) 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	1500	512	0	34	0.53	0	70.1	47.3	43.5	19.7	19.7
1-2 AM	443	0.0	29	0.0	1500	443	0	29	0.53	0	70.2	47.6	43.7	19.7	19.7
2-3 AM	485	0.0	32	0.0	1500	485	0	32	0.53	0	70.1	47.4	43.6	19.7	19.7
3-4 AM	561	0.0	37	0.0	1500	561	0	37	0.54	0	70.0	47.1	43.3	19.6	19.6
4-5 AM	850	0.0	56	0.0	1500	850	0	56	0.57	0	69.7	46.1	42.2	19.5	19.5
5-6 AM	1526	0.0	101	0.0	1499	1526	0	101	1.52	17	68.8	29.4	31.7	19.3	19.3
6-7 AM	1776	0.0	118	0.0	1500	1613	163	281	6.87	155	68.5	10.9	30.8	19.1	18.9
7-8 AM	1922	0.0	128	0.0	1500	1510	412	540	8.41	191	68.4	9.6	30.8	19.1	17.5
8-9 AM	1788	0.0	119	0.0	1499	1486	302	421	8.00	180	68.5	9.8	30.8	19.1	18.2
9-10 AM	1861	0.0	123	0.0	1500	1512	349	472	8.18	185	68.4	9.7	30.8	19.1	17.9
10-11 AM	2100	0.0	139	0.0	1500	1530	570	709	9.08	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	1500	1504	1659	1869+	16.40	402	66.8	6.6	30.8	18.6	10.9
5-6 PM	2953	0.0	196	0.0	1500	1466	1487	1683+	15.90	388	67.1	6.6	30.8	18.6	11.1
6-7 PM	2549	0.0	169	0.0	1499	1397	1152	1321	12.54	301	67.6	7.6	30.8	18.8	13.1
7-8 PM	2122	0.0	141	0.0	1500	1442	680	820	9.57	222	68.1	8.8	30.8	19.0	15.9
8-9 PM	1809	0.0	120	0.0	1500	1469	340	460	8.14	184	68.5	9.7	30.8	19.1	17.9
9-10 PM	1390	0.0	92	0.0	1499	1376	14	106	5.69	126	69.0	12.3	31.5	19.3	19.7
10-11 PM	1097	0.0	72	0.0	1500	1097	0	72	0.73	3	69.4	42.0	40.1	19.4	19.4
11PM-MID	677	0.0	44	0.0	1500	677	0	44	0.55	0	69.9	46.8	42.8	19.6	19.6

+ 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	0.0091
MAIN ROUTE WITH WORKS	0.0042
DIVERSION	0.0506

PIA: Personal Injury Accidents

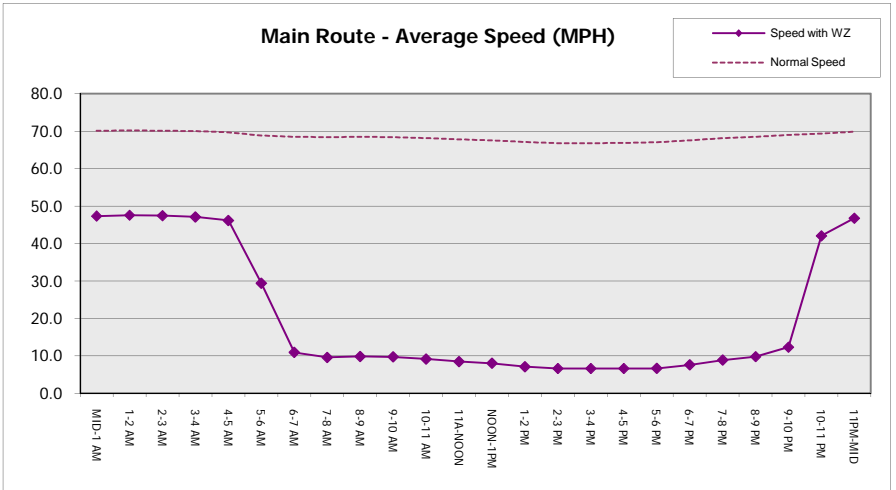
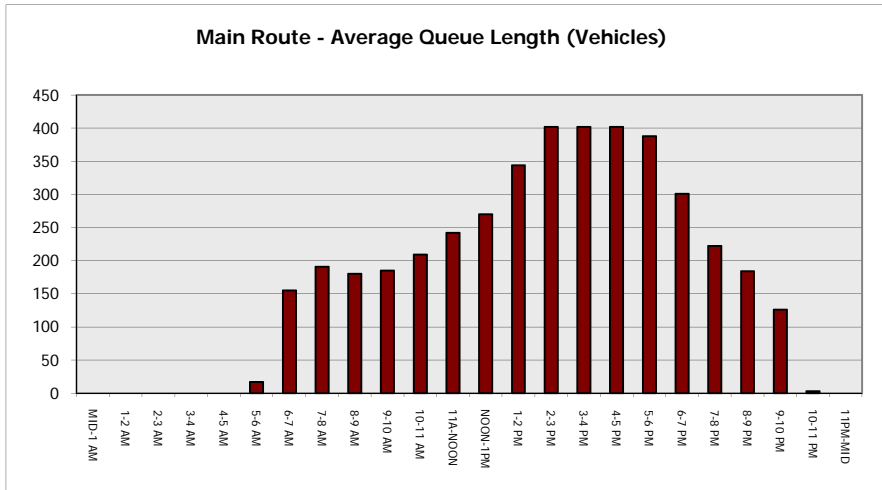
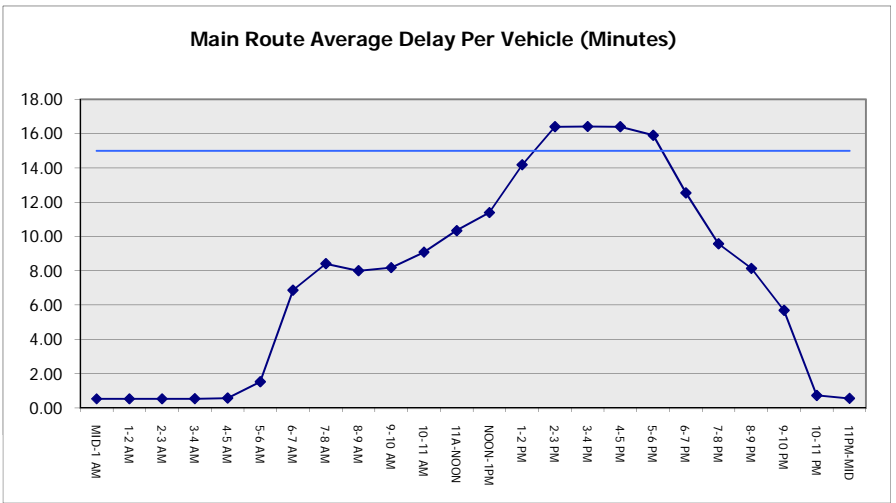
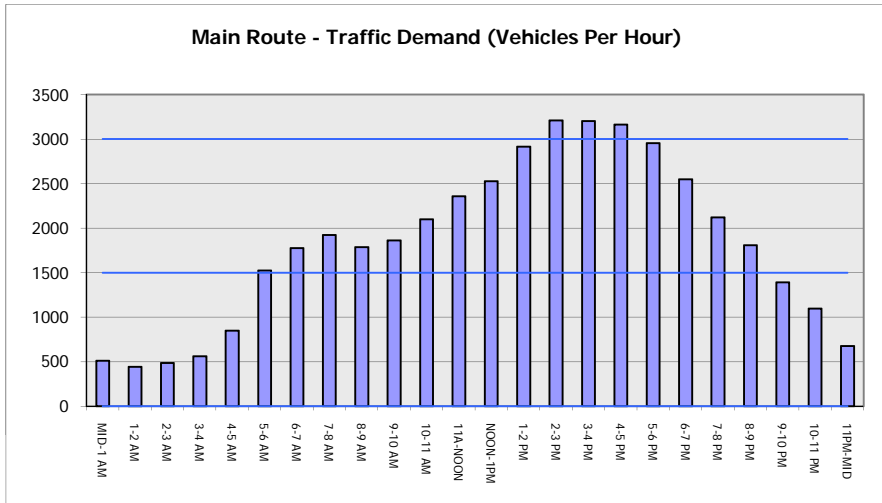
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$111,981
CONGESTED HOURS PER DAY*	4

*Delays Exceeding 15 Minutes

**IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY)
 CONTINUOUS (24 HOUR) 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) CONTINUOUS (24 HOUR) 2 LANE CLOSURE DIVERSION ROUTE: CARMICHAEL RD - STAGELINE RD - USH 12	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	490	0.0	32	0.0	1500	490	0	32	0.53	0	70.1	47.4	43.5	19.7	19.7
1-2 AM	360	0.0	24	0.0	1500	360	0	24	0.52	0	70.2	47.9	44.0	19.7	19.7
2-3 AM	281	0.0	18	0.0	1500	281	0	18	0.51	0	70.2	48.2	44.3	19.7	19.7
3-4 AM	325	0.0	22	0.0	1500	325	0	22	0.51	0	70.2	48.0	44.2	19.7	19.7
4-5 AM	399	0.0	26	0.0	1500	399	0	26	0.52	0	70.2	47.8	43.9	19.7	19.7
5-6 AM	710	0.0	48	0.0	1500	710	0	48	0.56	0	69.9	46.6	42.7	19.6	19.6
6-7 AM	1096	0.0	72	0.0	1499	1096	0	72	0.66	0	69.4	43.8	39.7	19.4	19.4
7-8 AM	1715	0.0	114	0.0	1499	1715	0	114	3.45	81	68.6	17.7	30.8	19.2	19.4
8-9 AM	1931	0.0	128	0.0	1499	1490	441	569	8.53	194	68.3	9.4	30.8	19.1	17.3
9-10 AM	2439	0.0	161	0.0	1500	1576	863	1024	10.59	250	67.7	8.3	30.8	18.9	14.8
10-11 AM	2879	0.0	190	0.0	1500	1591	1289	1479	13.86	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	1500	1500	2392	2649+	16.35	402	64.3	6.6	30.8	18.3	10.9
5-6 PM	3547	0.0	235	0.0	1500	1500	2047	2282+	16.41	402	66.3	6.6	30.8	18.4	10.9
6-7 PM	3260	0.0	216	0.0	1500	1501	1759	1976+	16.41	402	66.7	6.6	30.8	18.5	10.9
7-8 PM	2501	0.0	165	0.0	1499	1337	1164	1330	12.69	308	67.6	7.5	30.8	18.8	13.1
8-9 PM	1635	0.0	108	0.0	1500	1412	222	331	7.70	174	68.7	10.1	31.1	19.2	18.7
9-10 PM	1292	0.0	85	0.0	1499	1292	0	85	2.60	70	69.1	21.5	33.7	19.3	19.6
10-11 PM	1048	0.0	69	0.0	1500	1048	0	69	0.59	0	69.4	45.5	41.5	19.4	19.4
11PM-MID	784	0.0	52	0.0	1500	784	0	52	0.56	0	69.7	46.3	42.5	19.6	19.6

+ 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	0.0039
DIVERSION	0.0701

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$145,228
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

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CONTINUOUS (24 HOUR) 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

