

<b>IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY)</b> <b>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: CARMICHAEL RD - STAGELINE RD - USH 12</b>	<b>OCTOBER</b>
	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	347	0.0	23	0.0	OFF	347	0	23	0.00	0	70.2	70.2	70.2	19.7	19.7
1-2 AM	265	0.0	17	0.0	OFF	265	0	17	0.00	0	70.2	70.2	70.2	19.7	19.7
2-3 AM	228	0.0	15	0.0	OFF	228	0	15	0.00	0	70.2	70.2	70.2	19.7	19.7
3-4 AM	220	0.0	14	0.0	OFF	220	0	14	0.00	0	70.2	70.2	70.2	19.8	19.8
4-5 AM	221	0.0	15	0.0	OFF	221	0	15	0.00	0	70.2	70.2	70.2	19.7	19.7
5-6 AM	285	0.0	18	0.0	OFF	285	0	18	0.00	0	70.2	70.2	70.2	19.7	19.7
6-7 AM	373	0.0	25	0.0	OFF	373	0	25	0.00	0	70.2	70.2	70.2	19.7	19.7
7-8 AM	529	0.0	35	0.0	OFF	529	0	35	0.00	0	70.0	70.0	70.0	19.7	19.7
8-9 AM	827	0.0	55	0.0	OFF	827	0	55	0.00	0	69.7	69.7	69.7	19.5	19.5
9-10 AM	1325	0.0	88	0.0	1499	1325	0	88	0.85	0	69.1	39.3	35.2	19.3	19.3
10-11 AM	1878	0.0	124	0.0	1499	1719	159	283	5.00	120	68.4	13.6	30.8	19.1	18.6
11A-NOON	2452	0.0	162	0.0	1499	1563	889	1052	10.74	253	67.7	8.3	30.8	18.9	14.7
NOON-1PM	2742	0.0	182	0.0	1499	1558	1184	1366	12.85	309	67.3	7.5	30.8	18.8	12.9
1-2 PM	3149	0.0	209	0.0	1500	1560	1589	1798+	15.90	389	66.8	6.6	30.8	18.6	11.1
2-3 PM	3581	0.0	237	0.0	1500	1500	2081	2318+	16.41	402	66.3	6.6	30.8	18.4	10.9
3-4 PM	3990	0.0	264	0.0	1500	1500	2490	2754+	16.33	402	63.6	6.6	30.8	18.3	10.9
4-5 PM	4122	0.0	273	0.0	1500	1500	2622	2895+	16.30	402	62.7	6.6	30.8	18.2	10.9
5-6 PM	3930	0.0	261	0.0	1500	1500	2430	2691+	16.34	402	64.0	6.6	30.8	18.3	10.9
6-7 PM	3455	0.0	229	0.0	1500	1500	1955	2184+	16.41	402	66.4	6.6	30.8	18.4	10.9
7-8 PM	3176	0.0	211	0.0	OFF	3176	0	211	0.29	28	66.8	53.5	53.5	18.6	18.6
8-9 PM	2591	0.0	172	0.0	OFF	2591	0	172	0.00	0	67.5	67.5	67.5	18.8	18.8
9-10 PM	1863	0.0	123	0.0	OFF	1863	0	123	0.00	0	68.4	68.4	68.4	19.1	19.1
10-11 PM	1234	0.0	82	0.0	OFF	1234	0	82	0.00	0	69.2	69.2	69.2	19.4	19.4
11PM-MID	727	0.0	49	0.0	OFF	727	0	49	0.00	0	69.8	69.8	69.8	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	0.0090
MAIN ROUTE WITH WORKS	0.0048
DIVERSION	0.0558

PIA: Personal Injury Accidents

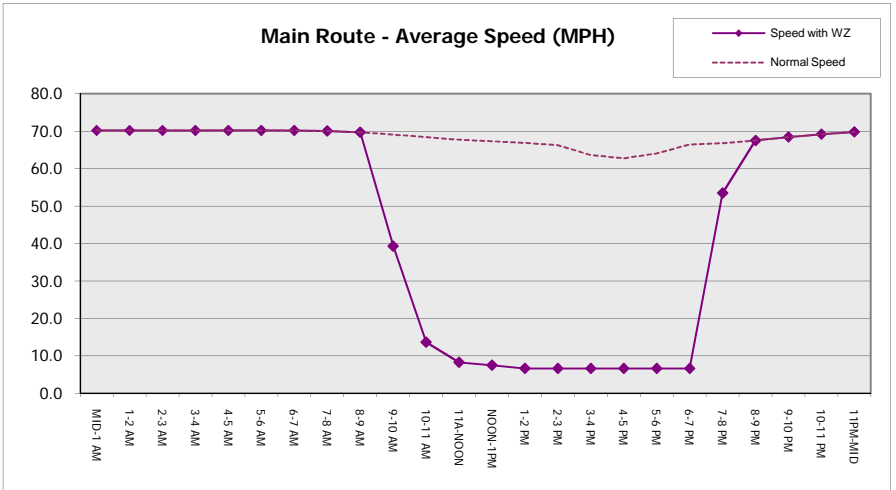
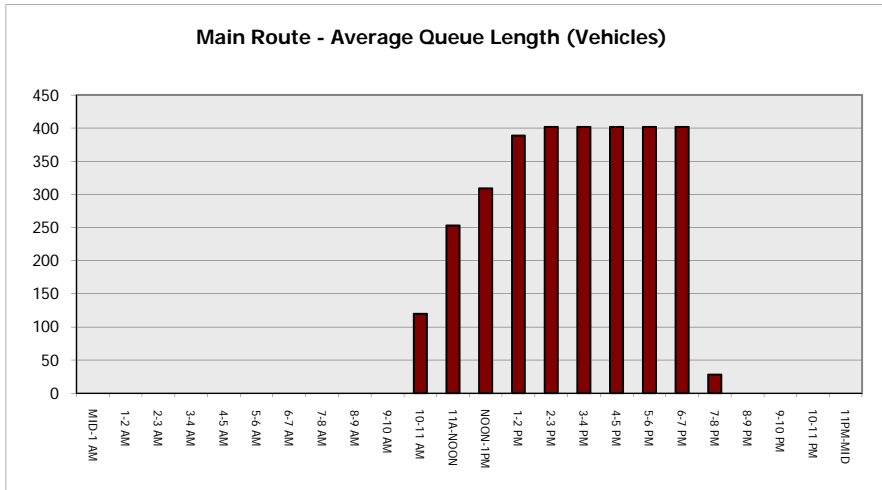
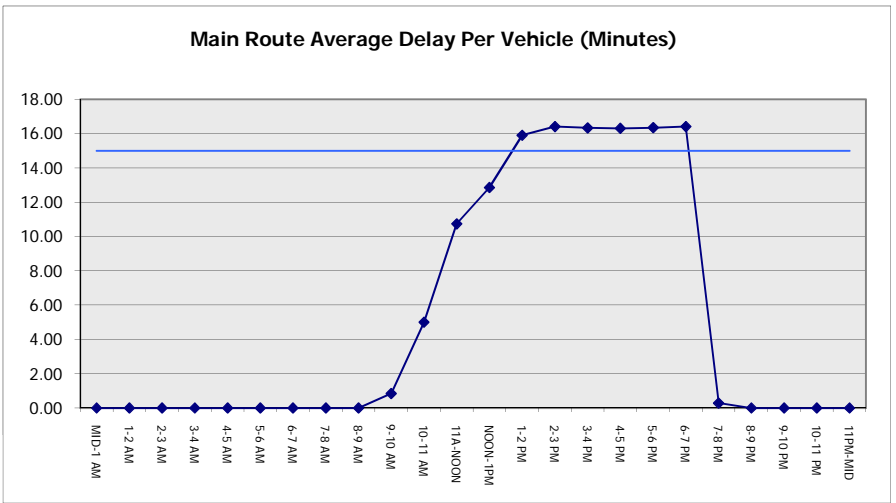
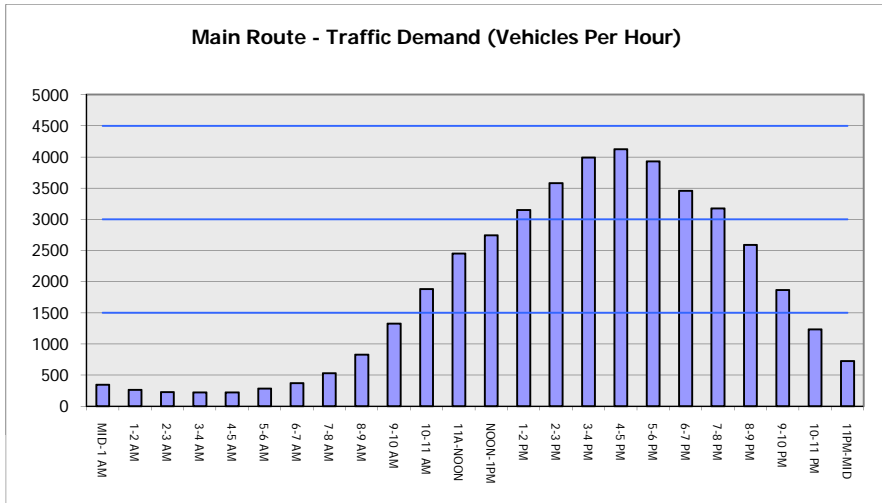
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$130,915
CONGESTED HOURS PER DAY*	6

\*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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY WESTBOUND DIRECTION**



<b>IH 94: CARMICHAEL RD TO STH 35 S (ST CROIX COUNTY)</b> <b>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: CARMICHAEL RD - STAGELINE RD - USH 12</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**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	401	0.0	27	0.0	OFF	401	0	27	0.00	0	70.2	70.2	70.2	19.7	19.7
1-2 AM	250	0.0	16	0.0	OFF	250	0	16	0.00	0	70.2	70.2	70.2	19.7	19.7
2-3 AM	209	0.0	14	0.0	OFF	209	0	14	0.00	0	70.2	70.2	70.2	19.8	19.8
3-4 AM	172	0.0	12	0.0	OFF	172	0	12	0.00	0	70.2	70.2	70.2	19.8	19.8
4-5 AM	215	0.0	14	0.0	OFF	215	0	14	0.00	0	70.2	70.2	70.2	19.8	19.8
5-6 AM	296	0.0	19	0.0	OFF	296	0	19	0.00	0	70.2	70.2	70.2	19.7	19.7
6-7 AM	514	0.0	34	0.0	OFF	514	0	34	0.00	0	70.1	70.1	70.1	19.7	19.7
7-8 AM	830	0.0	55	0.0	OFF	830	0	55	0.00	0	69.7	69.7	69.7	19.5	19.5
8-9 AM	1252	0.0	83	0.0	OFF	1252	0	83	0.00	0	69.2	69.2	69.2	19.4	19.4
9-10 AM	1923	0.0	128	0.0	1499	1721	202	330	5.31	128	68.4	13.0	30.8	19.1	18.3
10-11 AM	2562	0.0	170	0.0	1499	1585	977	1147	11.31	269	67.6	8.0	30.8	18.8	14.1
11A-NOON	2925	0.0	193	0.0	1500	1578	1347	1540	14.47	351	67.1	7.0	30.8	18.7	11.9
NOON-1PM	3011	0.0	199	0.0	1499	1514	1497	1696+	16.11	394	67.0	6.6	30.8	18.6	11.0
1-2 PM	3053	0.0	202	0.0	1500	1502	1551	1754+	16.33	400	66.9	6.6	30.8	18.6	10.9
2-3 PM	3037	0.0	201	0.0	1500	1500	1537	1738+	16.31	399	66.9	6.6	30.8	18.6	10.9
3-4 PM	2993	0.0	198	0.0	1500	1493	1500	1698+	16.22	397	67.0	6.6	30.8	18.6	10.9
4-5 PM	2924	0.0	193	0.0	1500	1470	1454	1647+	15.64	382	67.1	6.7	30.8	18.7	11.2
5-6 PM	2592	0.0	172	0.0	1499	1407	1185	1357	12.82	308	67.5	7.5	30.8	18.8	12.9
6-7 PM	2083	0.0	138	0.0	1500	1429	653	792	9.45	219	68.1	8.9	30.8	19.0	16.1
7-8 PM	1813	0.0	120	0.0	OFF	1813	0	120	0.05	4	68.5	65.5	65.5	19.1	19.1
8-9 PM	1229	0.0	81	0.0	OFF	1229	0	81	0.00	0	69.2	69.2	69.2	19.4	19.4
9-10 PM	917	0.0	61	0.0	OFF	917	0	61	0.00	0	69.6	69.6	69.6	19.5	19.5
10-11 PM	690	0.0	45	0.0	OFF	690	0	45	0.00	0	69.9	69.9	69.9	19.6	19.6
11PM-MID	453	0.0	30	0.0	OFF	453	0	30	0.00	0	70.2	70.2	70.2	19.7	19.7

"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	0.0075
MAIN ROUTE WITH WORKS	0.0040
DIVERSION	0.0437

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$113,341
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**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY EASTBOUND DIRECTION**

