

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

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	1500	347	0	23	0.51	0	70.2	47.9	44.1	19.7	19.7
1-2 AM	265	0.0	17	0.0	1500	265	0	17	0.50	0	70.2	48.3	44.4	19.7	19.7
2-3 AM	228	0.0	15	0.0	1500	228	0	15	0.50	0	70.2	48.4	44.6	19.7	19.7
3-4 AM	220	0.0	14	0.0	1500	220	0	14	0.50	0	70.2	48.4	44.6	19.8	19.8
4-5 AM	221	0.0	15	0.0	1500	221	0	15	0.50	0	70.2	48.4	44.6	19.7	19.7
5-6 AM	285	0.0	18	0.0	1500	285	0	18	0.51	0	70.2	48.2	44.3	19.7	19.7
6-7 AM	373	0.0	25	0.0	1500	373	0	25	0.52	0	70.2	47.8	44.0	19.7	19.7
7-8 AM	529	0.0	35	0.0	1500	529	0	35	0.54	0	70.0	47.3	43.4	19.7	19.7
8-9 AM	827	0.0	55	0.0	1500	827	0	55	0.57	0	69.7	46.2	42.3	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	1500	1501	1675	1886+	16.38	401	66.8	6.6	30.8	18.6	10.9
8-9 PM	2591	0.0	172	0.0	1499	1359	1232	1403	13.26	322	67.5	7.3	30.8	18.8	12.7
9-10 PM	1863	0.0	123	0.0	1500	1410	453	576	8.57	197	68.4	9.4	30.8	19.1	17.3
10-11 PM	1234	0.0	82	0.0	1499	1228	6	89	2.44	79	69.2	22.7	35.6	19.4	19.6
11PM-MID	727	0.0	49	0.0	1500	727	0	49	0.56	0	69.8	46.6	42.7	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	0.0090
MAIN ROUTE WITH WORKS	0.0035
DIVERSION	0.0661

PIA: Personal Injury Accidents

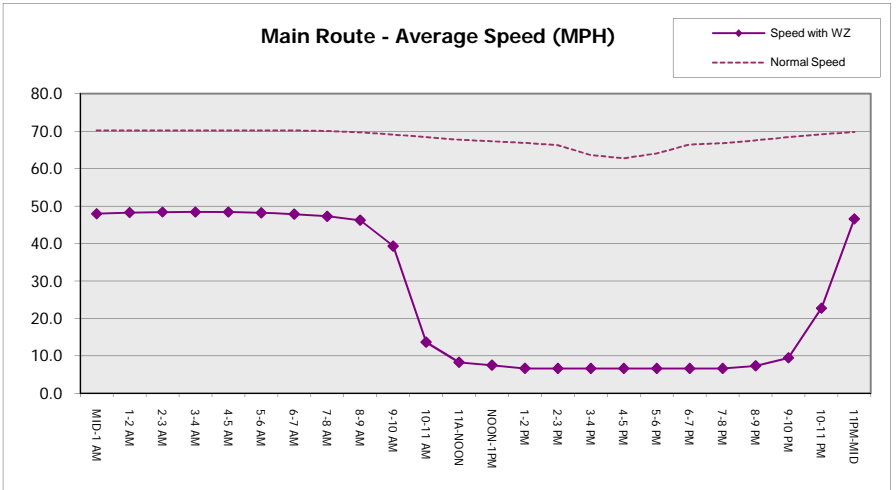
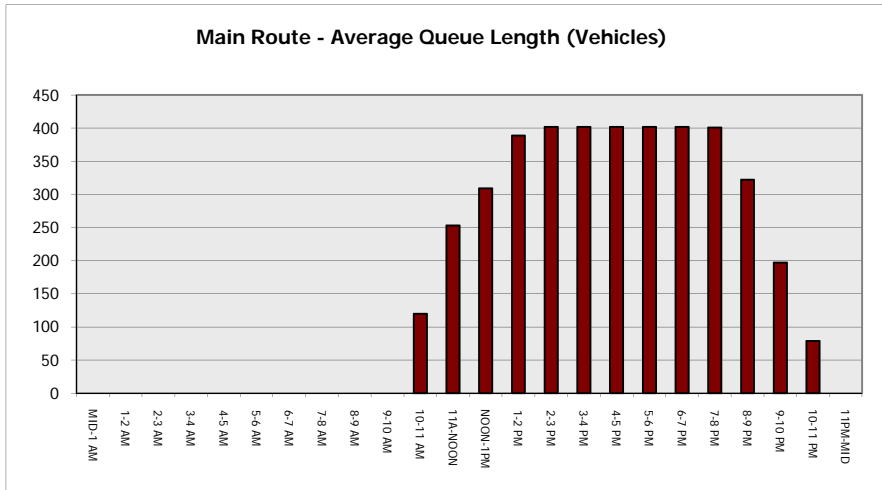
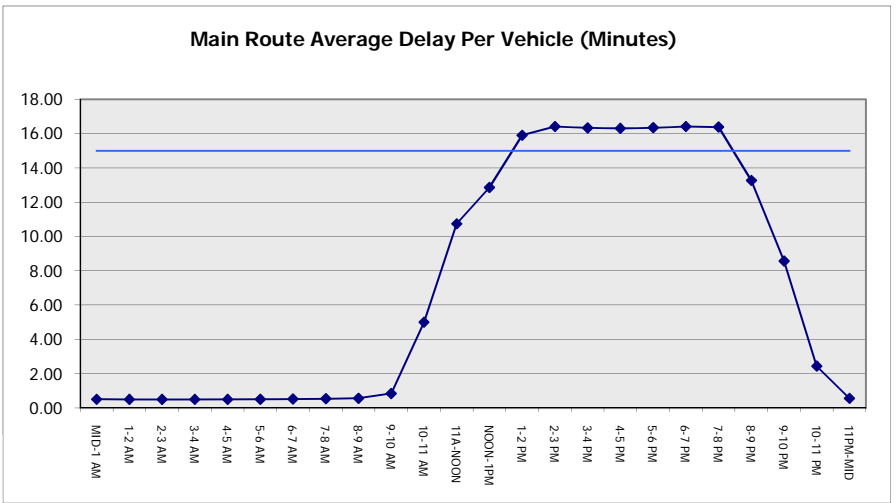
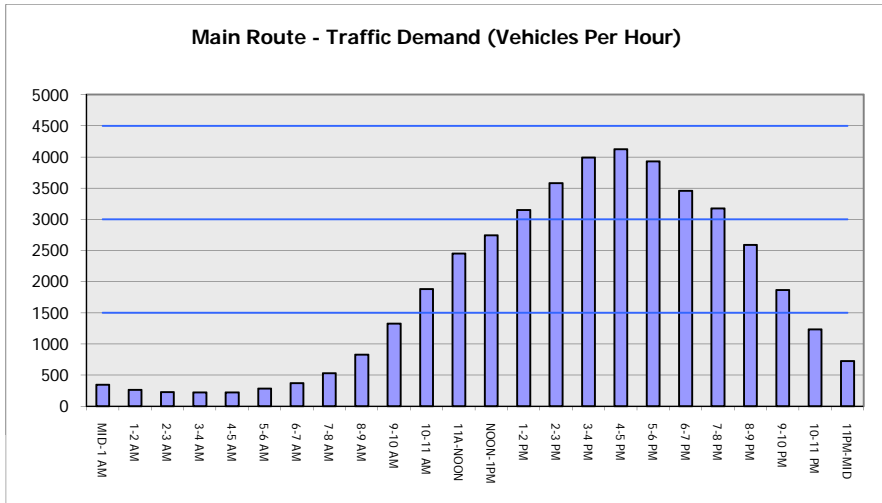
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$163,584
CONGESTED HOURS PER DAY*	7

*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
SUNDAY 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

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	1500	401	0	27	0.52	0	70.2	47.8	43.9	19.7	19.7
1-2 AM	250	0.0	16	0.0	1500	250	0	16	0.50	0	70.2	48.3	44.5	19.7	19.7
2-3 AM	209	0.0	14	0.0	1500	209	0	14	0.50	0	70.2	48.4	44.6	19.8	19.8
3-4 AM	172	0.0	12	0.0	1500	172	0	12	0.49	0	70.2	48.6	44.8	19.8	19.8
4-5 AM	215	0.0	14	0.0	1500	215	0	14	0.50	0	70.2	48.4	44.6	19.8	19.8
5-6 AM	296	0.0	19	0.0	1500	296	0	19	0.51	0	70.2	48.1	44.3	19.7	19.7
6-7 AM	514	0.0	34	0.0	1500	514	0	34	0.53	0	70.1	47.3	43.5	19.7	19.7
7-8 AM	830	0.0	55	0.0	1500	830	0	55	0.57	0	69.7	46.2	42.3	19.5	19.5
8-9 AM	1252	0.0	83	0.0	1499	1252	0	83	0.76	0	69.2	41.3	37.3	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	1500	1473	340	460	8.14	184	68.5	9.7	30.8	19.1	17.9
8-9 PM	1229	0.0	81	0.0	1499	1224	5	86	2.27	73	69.2	23.7	35.6	19.4	19.6
9-10 PM	917	0.0	61	0.0	1500	917	0	61	0.58	0	69.6	45.9	42.0	19.5	19.5
10-11 PM	690	0.0	45	0.0	1500	690	0	45	0.55	0	69.9	46.7	42.8	19.6	19.6
11PM-MID	453	0.0	30	0.0	1500	453	0	30	0.53	0	70.2	47.6	43.7	19.7	19.7

+ 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	0.0034
DIVERSION	0.0447

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$120,126
CONGESTED HOURS PER DAY*	5

*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

SUNDAY EASTBOUND DIRECTION

