

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	AUGUST
	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	559	0.0	37	0.0	1500	559	0	37	0.54	0	70.0	47.1	43.3	19.6	19.6
1-2 AM	465	0.0	30	0.0	1500	465	0	30	0.53	0	70.2	47.5	43.7	19.7	19.7
2-3 AM	484	0.0	32	0.0	1500	484	0	32	0.53	0	70.1	47.4	43.6	19.7	19.7
3-4 AM	563	0.0	37	0.0	1500	563	0	37	0.54	0	70.0	47.1	43.3	19.6	19.6
4-5 AM	937	0.0	62	0.0	1499	937	0	62	0.58	0	69.6	45.8	41.9	19.5	19.5
5-6 AM	1492	0.0	98	0.0	1499	1492	0	98	1.36	11	68.9	31.2	32.0	19.3	19.3
6-7 AM	1741	0.0	116	0.0	1500	1637	104	219	5.93	133	68.6	12.0	30.8	19.1	19.1
7-8 AM	1859	0.0	123	0.0	1499	1504	355	478	8.19	186	68.4	9.7	30.8	19.1	17.8
8-9 AM	1812	0.0	120	0.0	1499	1496	316	436	8.05	182	68.5	9.8	30.8	19.1	18.1
9-10 AM	1965	0.0	130	0.0	1500	1521	444	574	8.54	195	68.3	9.4	30.8	19.1	17.3
10-11 AM	2288	0.0	151	0.0	1500	1543	745	897	9.92	231	67.9	8.6	30.8	18.9	15.5
11A-NOON	2520	0.0	166	0.0	1500	1534	986	1153	11.33	268	67.6	8.0	30.8	18.8	14.0
NOON-1PM	2619	0.0	173	0.0	1499	1524	1095	1268	12.09	288	67.5	7.7	30.8	18.8	13.4
1-2 PM	3033	0.0	201	0.0	1500	1592	1441	1642+	15.18	371	66.9	6.8	30.8	18.6	11.5
2-3 PM	3226	0.0	214	0.0	1499	1500	1726	1940+	16.42	402	66.7	6.6	30.8	18.6	10.9
3-4 PM	3232	0.0	214	0.0	1500	1500	1732	1946+	16.42	402	66.7	6.6	30.8	18.6	10.9
4-5 PM	3097	0.0	205	0.0	1500	1502	1594	1800+	16.37	401	66.9	6.6	30.8	18.6	10.9
5-6 PM	2970	0.0	197	0.0	1500	1478	1492	1689+	16.06	392	67.1	6.6	30.8	18.6	11.0
6-7 PM	2737	0.0	182	0.0	1499	1426	1311	1493	14.01	339	67.3	7.1	30.8	18.8	12.1
7-8 PM	2291	0.0	151	0.0	1500	1419	872	1023	10.60	250	67.9	8.3	30.8	18.9	14.8
8-9 PM	1919	0.0	128	0.0	1500	1463	456	583	8.58	196	68.4	9.4	30.8	19.1	17.3
9-10 PM	1799	0.0	119	0.0	1500	1488	312	431	8.03	181	68.5	9.8	30.8	19.1	18.1
10-11 PM	1351	0.0	90	0.0	1499	1337	14	104	4.94	113	69.1	13.6	32.4	19.3	19.6
11PM-MID	894	0.0	59	0.0	1500	893	0	60	0.58	0	69.6	45.9	42.0	19.5	19.5

+ 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	0.0095
MAIN ROUTE WITH WORKS	0.0043
DIVERSION	0.0550

PIA: Personal Injury Accidents

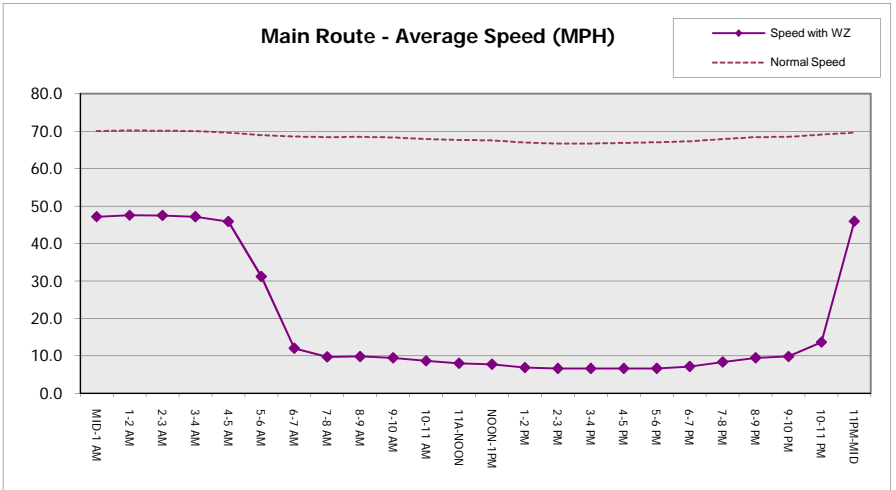
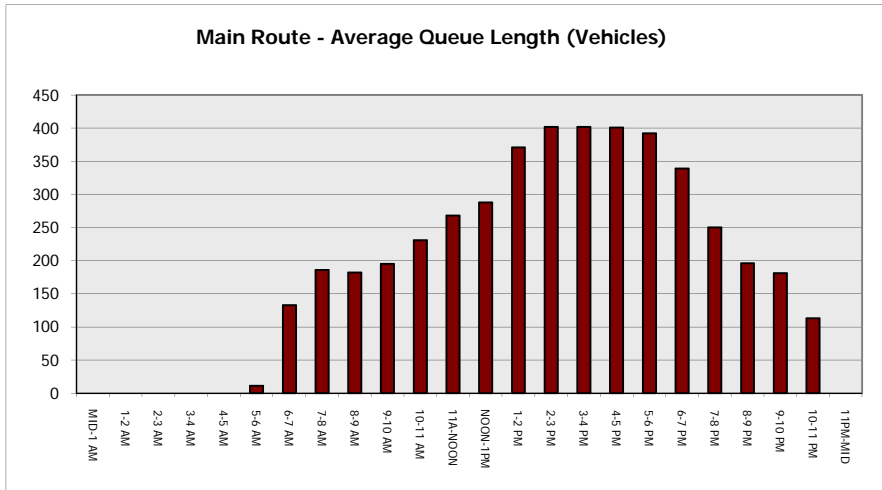
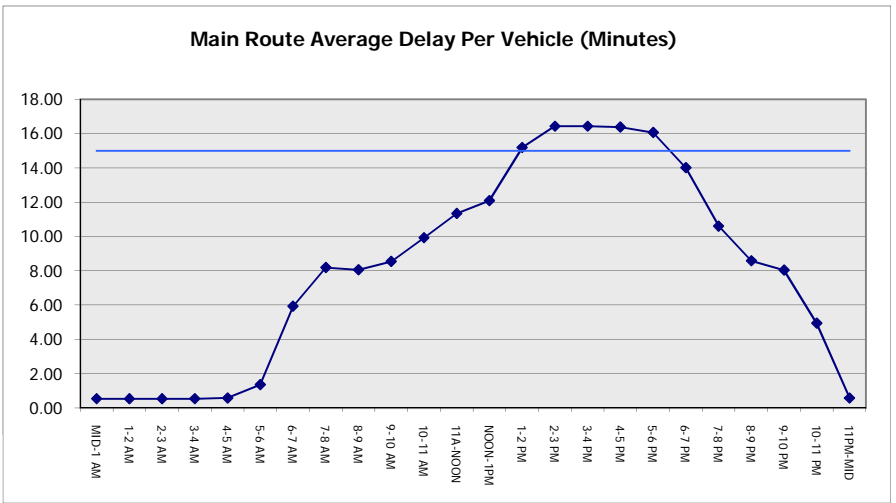
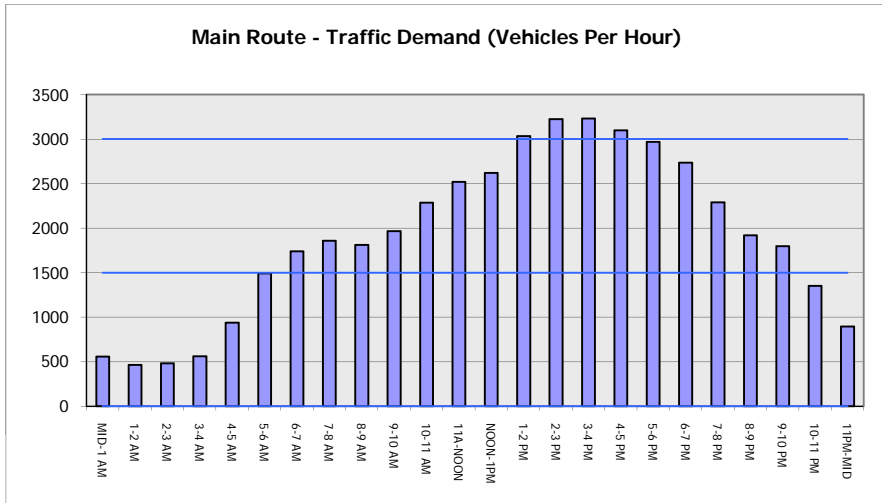
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$122,267
CONGESTED HOURS PER DAY*	5

*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**

AUGUST
 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	AUGUST
	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	629	0.0	42	0.0	1500	629	0	42	0.55	0	69.9	46.9	43.0	19.6	19.6
1-2 AM	409	0.0	27	0.0	1500	409	0	27	0.52	0	70.2	47.7	43.8	19.7	19.7
2-3 AM	358	0.0	24	0.0	1500	358	0	24	0.52	0	70.2	47.9	44.0	19.7	19.7
3-4 AM	357	0.0	24	0.0	1500	357	0	24	0.52	0	70.2	47.9	44.0	19.7	19.7
4-5 AM	451	0.0	30	0.0	1500	451	0	30	0.53	0	70.2	47.6	43.7	19.7	19.7
5-6 AM	759	0.0	51	0.0	1500	759	0	51	0.56	0	69.8	46.5	42.5	19.6	19.6
6-7 AM	1267	0.0	84	0.0	1499	1267	0	84	0.78	0	69.2	40.9	36.8	19.4	19.4
7-8 AM	1860	0.0	123	0.0	1499	1713	147	270	5.01	119	68.4	13.5	30.8	19.1	18.7
8-9 AM	2217	0.0	147	0.0	1499	1533	685	832	9.62	223	68.0	8.8	30.8	18.9	15.8
9-10 AM	2834	0.0	188	0.0	1500	1635	1200	1388	13.09	317	67.2	7.4	30.8	18.7	12.7
10-11 AM	3485	0.0	230	0.0	1499	1500	1985	2215+	16.41	402	66.4	6.6	30.8	18.4	10.9
11A-NOON	3534	0.0	235	0.0	1500	1500	2034	2269+	16.41	402	66.3	6.6	30.8	18.4	10.9
NOON-1PM	3530	0.0	233	0.0	1500	1500	2030	2263+	16.41	402	66.3	6.6	30.8	18.4	10.9
1-2 PM	4083	0.0	270	0.0	1500	1500	2583	2853+	16.31	402	63.0	6.6	30.8	18.2	10.9
2-3 PM	4236	0.0	281	0.0	1500	1500	2736	3017+	16.28	402	61.9	6.6	30.8	18.1	10.9
3-4 PM	4104	0.0	271	0.0	1500	1500	2604	2876+	16.31	402	62.8	6.6	30.8	18.2	10.9
4-5 PM	4160	0.0	276	0.0	1500	1500	2660	2936+	16.30	402	62.4	6.6	30.8	18.1	10.9
5-6 PM	3991	0.0	265	0.0	1500	1500	2491	2756+	16.33	402	63.6	6.6	30.8	18.3	10.9
6-7 PM	3810	0.0	252	0.0	1500	1500	2310	2562+	16.37	402	64.8	6.6	30.8	18.3	10.9
7-8 PM	2738	0.0	182	0.0	1500	1396	1342	1524	14.36	350	67.3	7.0	30.8	18.8	11.9
8-9 PM	1929	0.0	128	0.0	1500	1400	530	657	8.89	206	68.3	9.3	30.9	19.1	16.8
9-10 PM	1428	0.0	94	0.0	1500	1399	29	123	6.24	137	68.9	11.6	31.0	19.3	19.7
10-11 PM	1218	0.0	81	0.0	1500	1218	0	81	1.03	12	69.2	36.1	37.4	19.4	19.4
11PM-MID	918	0.0	61	0.0	1500	918	0	61	0.58	0	69.6	45.9	42.0	19.5	19.5

+ 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	0.0112
MAIN ROUTE WITH WORKS	0.0041
DIVERSION	0.0884

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$175,086
CONGESTED HOURS PER DAY*	9

*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

AUGUST
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY EASTBOUND DIRECTION

