

<b>IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD</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	397	0.0	47	0.0	1500	397	0	47	0.52	0	70.2	50.8	43.9	19.5	19.5
1-2 AM	304	0.0	36	0.0	1500	304	0	36	0.51	0	70.2	51.1	44.3	19.6	19.6
2-3 AM	260	0.0	30	0.0	1500	260	0	30	0.50	0	70.2	51.2	44.5	19.6	19.6
3-4 AM	251	0.0	29	0.0	1500	251	0	29	0.50	0	70.2	51.3	44.5	19.6	19.6
4-5 AM	253	0.0	29	0.0	1500	253	0	29	0.50	0	70.2	51.0	44.2	19.6	19.6
5-6 AM	325	0.0	39	0.0	1500	325	0	39	0.51	0	70.2	50.7	43.8	19.5	19.5
6-7 AM	426	0.0	50	0.0	1500	426	0	50	0.54	0	70.0	50.1	43.1	19.3	19.3
7-8 AM	606	0.0	71	0.0	1500	606	0	71	0.58	0	69.6	48.9	41.9	19.0	19.0
8-9 AM	946	0.0	111	0.0	1499	946	0	111	0.00	0	68.9	68.9	68.9	18.4	18.4
9-10 AM	1516	0.0	179	0.0	OFF	1516	0	179	0.00	0	68.1	68.1	68.1	17.9	17.9
10-11 AM	2147	0.0	253	0.0	OFF	2147	0	253	0.00	0	67.3	67.3	67.3	17.3	17.3
11A-NOON	2805	0.0	331	0.0	OFF	2805	0	331	0.00	0	66.8	66.8	66.8	17.0	17.0
NOON-1PM	3138	0.0	369	0.0	OFF	3138	0	369	0.00	0	66.3	66.3	66.3	16.5	16.5
1-2 PM	3603	0.0	424	0.0	OFF	3603	0	424	0.00	0	62.8	62.8	62.8	16.1	16.1
2-3 PM	4097	0.0	482	0.0	OFF	4097	0	482	0.00	0	59.7	59.7	59.7	15.6	15.6
3-4 PM	4564	0.0	538	0.0	OFF	4564	0	538	0.00	0	58.6	58.6	58.6	15.5	15.5
4-5 PM	4716	0.0	556	0.0	OFF	4716	0	556	0.00	0	60.1	60.1	60.1	15.7	15.7
5-6 PM	4496	0.0	530	0.0	OFF	4496	0	530	0.00	0	63.8	63.8	63.8	16.2	16.2
6-7 PM	3953	0.0	466	0.0	OFF	3953	0	466	0.00	0	66.0	6.8	32.9	16.5	10.6
7-8 PM	3633	0.0	428	0.0	1499	1795	1838	2266+	17.47	439	67.1	6.5	30.8	17.1	10.1
8-9 PM	2965	0.0	350	0.0	1499	1685	1280	1630+	18.90	470	68.1	7.6	30.9	17.9	12.3
9-10 PM	2132	0.0	251	0.0	1499	1264	868	1119	14.16	350	69.0	12.2	31.9	18.6	18.0
10-11 PM	1411	0.0	166	0.0	1500	1311	101	267	6.70	158	69.7	47.7	42.3	19.1	19.1
11PM-MID	832	0.0	98	0.0	1500	832	0	98	0.63	2					

"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	0.0127
MAIN ROUTE WITH WORKS	0.0109
DIVERSION	0.0325

PIA: Personal Injury Accidents

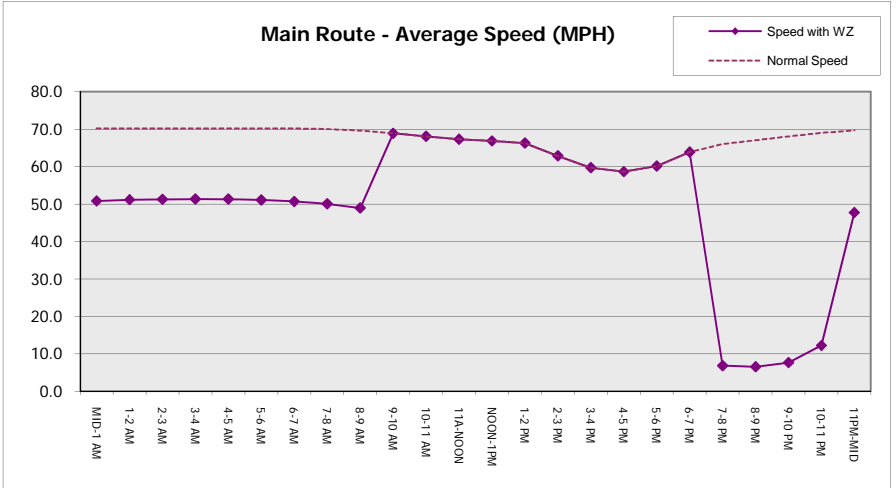
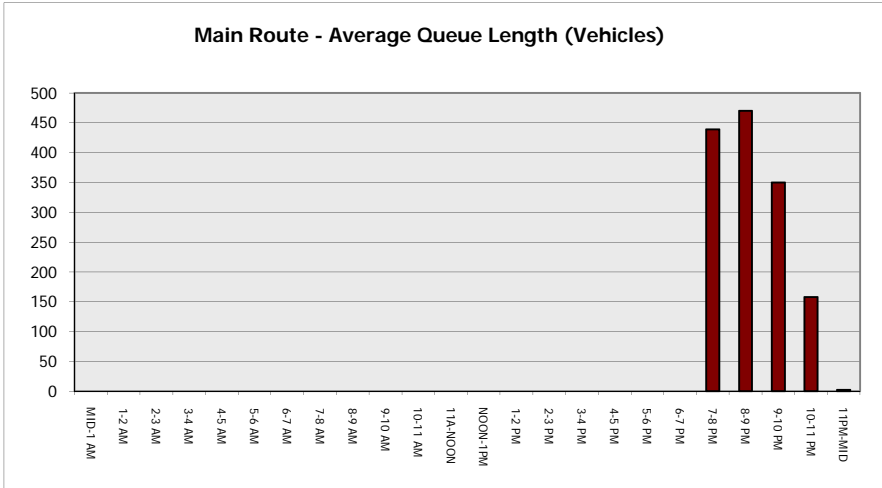
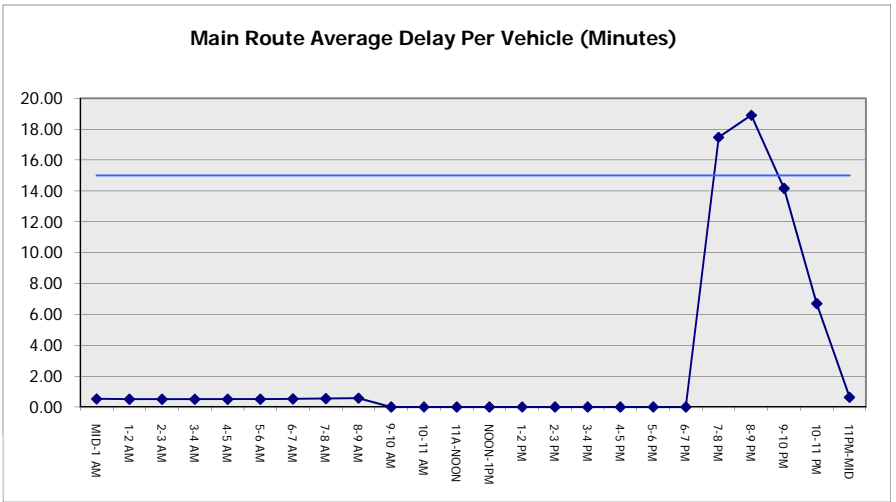
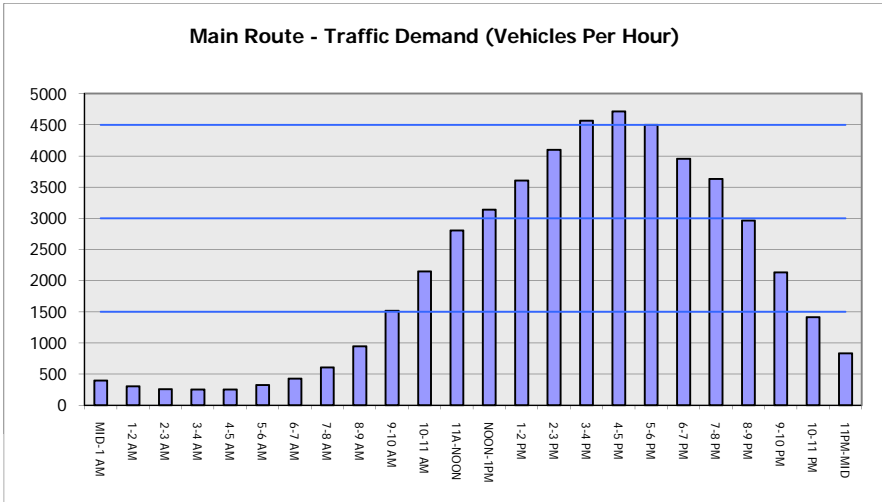
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$45,713
CONGESTED HOURS PER DAY*	2

\*Delays Exceeding 15 Minutes

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**NIGHTTIME 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

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



<b>IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)</b> <b>NIGHTTIME 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD</b>	<b>OCTOBER</b>
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**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								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		SITE	ALTERNATE ROUTE	
	DEMAND FLOW	PCT HEAVY	NORMAL FLOW	PCT HEAVY							WITHOUT WORK ZN	WITH WORK ZN		WITHOUT WORK ZN	WITH WORK ZN
MID-1 AM	459	0.0	54	0.0	1500	459	0	54	0.53	0	70.2	50.5	43.7	19.4	19.4
1-2 AM	286	0.0	33	0.0	1500	286	0	33	0.51	0	70.2	51.2	44.3	19.6	19.6
2-3 AM	239	0.0	28	0.0	1500	239	0	28	0.50	0	70.2	51.3	44.5	19.6	19.6
3-4 AM	197	0.0	23	0.0	1500	197	0	23	0.50	0	70.2	51.5	44.7	19.7	19.7
4-5 AM	246	0.0	29	0.0	1500	246	0	29	0.50	0	70.2	51.3	44.5	19.6	19.6
5-6 AM	339	0.0	40	0.0	1500	339	0	40	0.51	0	70.2	51.0	44.2	19.6	19.6
6-7 AM	588	0.0	69	0.0	1500	588	0	69	0.54	0	70.0	50.1	43.2	19.3	19.3
7-8 AM	949	0.0	112	0.0	1499	949	0	112	0.58	0	69.6	48.9	41.9	19.0	19.0
8-9 AM	1432	0.0	169	0.0	1499	1432	0	169	1.25	11	68.9	36.3	33.5	18.6	18.6
9-10 AM	2200	0.0	259	0.0	OFF	2200	0	259	0.00	0	68.0	67.8	67.8	17.8	17.8
10-11 AM	2931	0.0	345	0.0	OFF	2931	0	345	0.00	0	67.1	67.1	67.1	17.1	17.1
11A-NOON	3347	0.0	395	0.0	OFF	3347	0	395	0.00	0	66.6	66.6	66.6	16.8	16.8
NOON-1PM	3445	0.0	406	0.0	OFF	3445	0	406	0.00	0	66.4	66.4	66.4	16.7	16.7
1-2 PM	3493	0.0	411	0.0	OFF	3493	0	411	0.00	0	66.4	66.4	66.4	16.6	16.6
2-3 PM	3474	0.0	409	0.0	OFF	3474	0	409	0.00	0	66.4	66.4	66.4	16.6	16.6
3-4 PM	3424	0.0	403	0.0	OFF	3424	0	403	0.00	0	66.5	66.5	66.5	16.7	16.7
4-5 PM	3345	0.0	394	0.0	OFF	3345	0	394	0.00	0	66.6	66.6	66.6	16.8	16.8
5-6 PM	2965	0.0	350	0.0	OFF	2965	0	350	0.00	0	67.1	67.1	67.1	17.1	17.1
6-7 PM	2382	0.0	280	0.0	OFF	2382	0	280	0.00	0	67.8	67.8	67.8	17.6	17.6
7-8 PM	2074	0.0	244	0.0	1499	1745	329	573	9.50	228	68.2	9.6	30.8	17.9	16.0
8-9 PM	1406	0.0	165	0.0	1500	1318	88	253	6.74	157	69.0	12.2	31.7	18.6	18.1
9-10 PM	1049	0.0	123	0.0	1500	1049	0	124	0.73	5	69.4	45.4	41.0	18.9	18.9
10-11 PM	789	0.0	93	0.0	1500	789	0	93	0.56	0	69.7	49.4	42.4	19.1	19.1
11PM-MID	519	0.0	61	0.0	1500	519	0	61	0.53	0	70.1	50.4	43.4	19.4	19.4

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

*----- 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	0.0106
MAIN ROUTE WITH WORKS	0.0098
DIVERSION	0.0173

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$9,676
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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 NIGHTTIME 2 LANE CLOSURE  
 DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD**

**OCTOBER**  
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**SUNDAY EASTBOUND DIRECTION**

