

<b>IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)</b> <b>OFF-PEAK DAY 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	OFF	397	0	47	0.00	0	70.2	70.2	70.2	19.5	19.5
1-2 AM	304	0.0	36	0.0	OFF	304	0	36	0.00	0	70.2	70.2	70.2	19.6	19.6
2-3 AM	260	0.0	30	0.0	OFF	260	0	30	0.00	0	70.2	70.2	70.2	19.6	19.6
3-4 AM	251	0.0	29	0.0	OFF	251	0	29	0.00	0	70.2	70.2	70.2	19.6	19.6
4-5 AM	253	0.0	29	0.0	OFF	253	0	29	0.00	0	70.2	70.2	70.2	19.6	19.6
5-6 AM	325	0.0	39	0.0	OFF	325	0	39	0.00	0	70.2	70.2	70.2	19.6	19.6
6-7 AM	426	0.0	50	0.0	OFF	426	0	50	0.00	0	70.2	70.2	70.2	19.5	19.5
7-8 AM	606	0.0	71	0.0	OFF	606	0	71	0.00	0	70.0	70.0	70.0	19.3	19.3
8-9 AM	946	0.0	111	0.0	OFF	946	0	111	0.00	0	69.6	69.6	69.6	19.0	19.0
9-10 AM	1516	0.0	179	0.0	1499	1516	0	179	1.56	20	68.9	32.5	32.3	18.4	18.4
10-11 AM	2147	0.0	253	0.0	1500	1738	409	663	9.90	243	68.1	9.4	30.8	17.9	15.4
11A-NOON	2805	0.0	331	0.0	1500	1664	1141	1472	17.68	439	67.3	6.8	30.8	17.3	10.5
NOON-1PM	3138	0.0	369	0.0	1500	1511	1627	1997+	20.26	503	66.8	6.3	30.8	17.0	9.6
1-2 PM	3603	0.0	424	0.0	1500	1500	2103	2527+	20.31	505	66.3	6.3	30.8	16.5	9.5
2-3 PM	4097	0.0	482	0.0	1499	1500	2597	3080+	20.19	505	62.8	6.3	30.8	16.1	9.5
3-4 PM	4564	0.0	538	0.0	1500	1500	3064	3602+	20.07	505	59.7	6.3	30.8	15.6	9.5
4-5 PM	4716	0.0	556	0.0	1500	1500	3216	3771+	20.03	505	58.6	6.3	30.8	15.5	9.5
5-6 PM	4496	0.0	530	0.0	1500	1500	2996	3526+	20.09	505	60.1	6.3	30.8	15.7	9.5
6-7 PM	3953	0.0	466	0.0	1499	1500	2453	2919+	20.23	505	63.8	6.3	30.8	16.2	9.5
7-8 PM	3633	0.0	428	0.0	OFF	3633	0	428	0.60	51	66.0	46.8	46.8	16.5	16.5
8-9 PM	2965	0.0	350	0.0	OFF	2965	0	350	0.00	0	67.1	67.1	67.1	17.1	17.1
9-10 PM	2132	0.0	251	0.0	OFF	2132	0	251	0.00	0	68.1	68.1	68.1	17.9	17.9
10-11 PM	1411	0.0	166	0.0	OFF	1411	0	166	0.00	0	69.0	69.0	69.0	18.6	18.6
11PM-MID	832	0.0	98	0.0	OFF	832	0	98	0.00	0	69.7	69.7	69.7	19.1	19.1

"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 (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	0.0127
MAIN ROUTE WITH WORKS	0.0066
DIVERSION	0.0831

PIA: Personal Injury Accidents

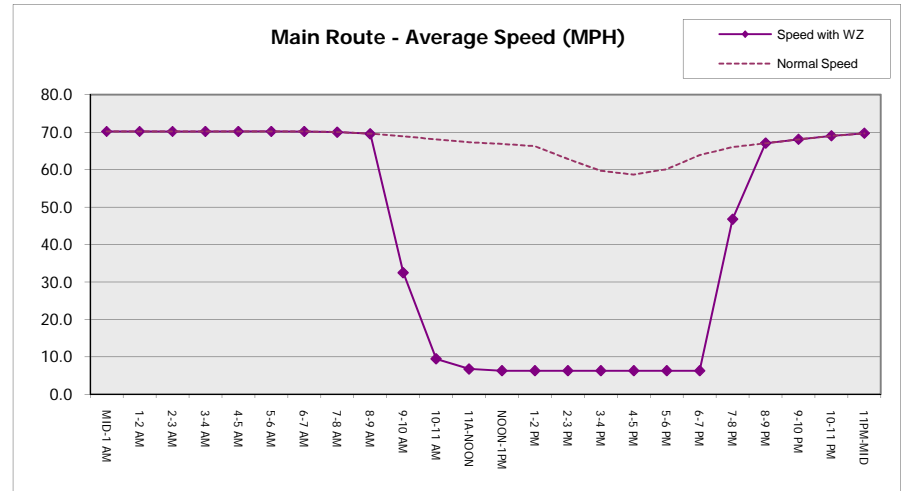
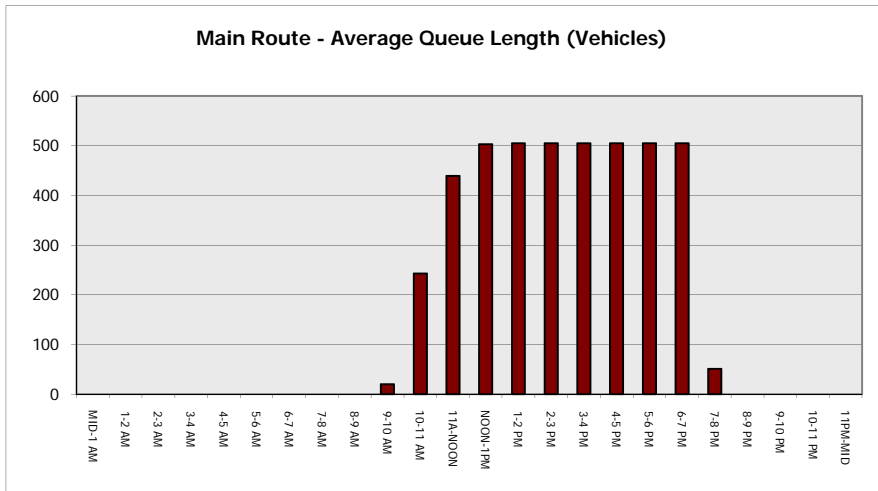
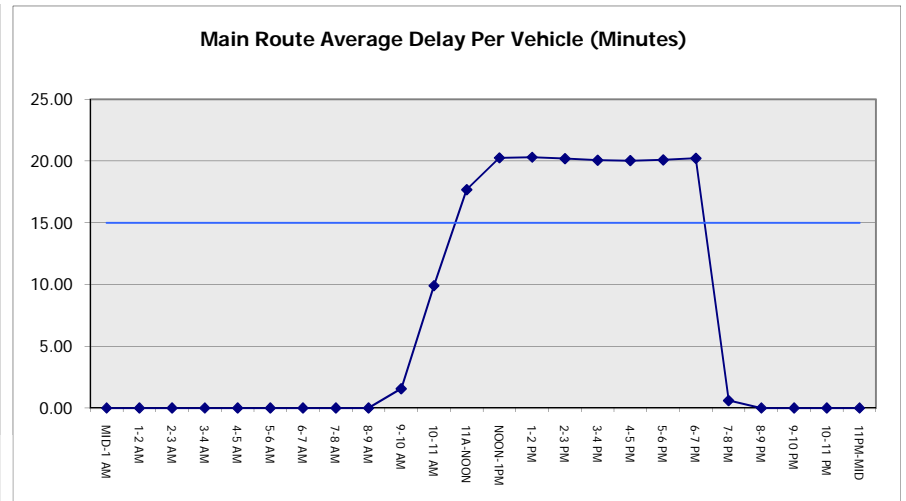
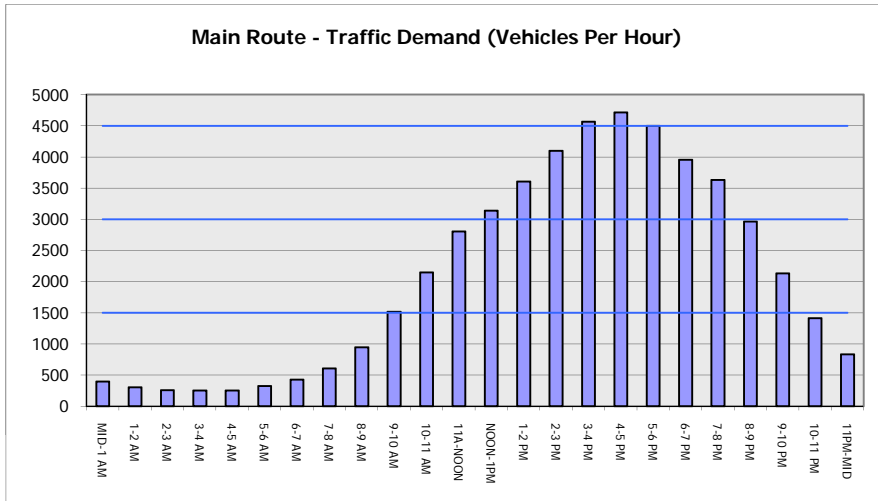
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$198,932
CONGESTED HOURS PER DAY*	8

\*Delays Exceeding 15 Minutes

**IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)**  
**OFF-PEAK DAY 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>OFF-PEAK DAY 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 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	459	0.0	54	0.0	OFF	459	0	54	0.00	0	70.2	70.2	70.2	19.4	19.4
1-2 AM	286	0.0	33	0.0	OFF	286	0	33	0.00	0	70.2	70.2	70.2	19.6	19.6
2-3 AM	239	0.0	28	0.0	OFF	239	0	28	0.00	0	70.2	70.2	70.2	19.6	19.6
3-4 AM	197	0.0	23	0.0	OFF	197	0	23	0.00	0	70.2	70.2	70.2	19.7	19.7
4-5 AM	246	0.0	29	0.0	OFF	246	0	29	0.00	0	70.2	70.2	70.2	19.6	19.6
5-6 AM	339	0.0	40	0.0	OFF	339	0	40	0.00	0	70.2	70.2	70.2	19.6	19.6
6-7 AM	588	0.0	69	0.0	OFF	588	0	69	0.00	0	70.0	70.0	70.0	19.3	19.3
7-8 AM	949	0.0	112	0.0	OFF	949	0	112	0.00	0	69.6	69.6	69.6	19.0	19.0
8-9 AM	1432	0.0	169	0.0	OFF	1432	0	169	0.00	0	68.9	68.9	68.9	18.6	18.6
9-10 AM	2200	0.0	259	0.0	1499	1839	360	619	8.55	217	68.0	10.5	30.8	17.8	15.6
10-11 AM	2931	0.0	345	0.0	1500	1649	1282	1627+	18.50	459	67.1	6.6	30.8	17.1	10.2
11A-NOON	3347	0.0	395	0.0	1499	1500	1847	2241+	20.32	505	66.6	6.3	30.8	16.8	9.5
NOON-1PM	3445	0.0	406	0.0	1500	1500	1945	2352+	20.32	505	66.4	6.3	30.8	16.7	9.5
1-2 PM	3493	0.0	411	0.0	1500	1500	1993	2404+	20.31	505	66.4	6.3	30.8	16.6	9.5
2-3 PM	3474	0.0	409	0.0	1500	1500	1974	2383+	20.31	505	66.4	6.3	30.8	16.6	9.5
3-4 PM	3424	0.0	403	0.0	1500	1500	1924	2327+	20.32	505	66.5	6.3	30.8	16.7	9.5
4-5 PM	3345	0.0	394	0.0	1500	1500	1845	2238+	20.32	505	66.6	6.3	30.8	16.8	9.5
5-6 PM	2965	0.0	350	0.0	1500	1508	1456	1806+	20.13	499	67.1	6.3	30.8	17.1	9.6
6-7 PM	2382	0.0	280	0.0	1499	1337	1045	1325	16.77	413	67.8	7.0	30.8	17.6	10.9
7-8 PM	2074	0.0	244	0.0	OFF	2074	0	244	0.15	14	68.2	61.5	61.5	17.9	17.9
8-9 PM	1406	0.0	165	0.0	OFF	1406	0	165	0.00	0	69.0	69.0	69.0	18.6	18.6
9-10 PM	1049	0.0	123	0.0	OFF	1049	0	123	0.00	0	69.4	69.4	69.4	18.9	18.9
10-11 PM	789	0.0	93	0.0	OFF	789	0	93	0.00	0	69.7	69.7	69.7	19.1	19.1
11PM-MID	519	0.0	61	0.0	OFF	519	0	61	0.00	0	70.1	70.1	70.1	19.4	19.4

"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	0.0106
MAIN ROUTE WITH WORKS	0.0056
DIVERSION	0.0671

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$180,242
CONGESTED HOURS PER DAY*	9

\*Delays Exceeding 15 Minutes

**IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)  
 OFF-PEAK DAY 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 EASTBOUND DIRECTION**

