

IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY) OFF-PEAK 2 LANE CLOSURE DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR 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	570	0.0	67	0.0	OFF	570	0	67	0.00	0	70.0	70.0	70.0	19.4	19.4
1-2 AM	496	0.0	59	0.0	OFF	496	0	59	0.00	0	70.1	70.1	70.1	19.4	19.4
2-3 AM	500	0.0	59	0.0	OFF	500	0	59	0.00	0	70.1	70.1	70.1	19.4	19.4
3-4 AM	698	0.0	83	0.0	OFF	698	0	83	0.00	0	69.9	69.9	69.9	19.3	19.3
4-5 AM	1280	0.0	151	0.0	OFF	1280	0	151	0.00	0	69.1	69.1	69.1	18.7	18.7
5-6 AM	1999	0.0	235	0.0	OFF	1999	0	235	0.00	0	68.2	68.2	68.2	18.0	18.0
6-7 AM	2232	0.0	263	0.0	OFF	2232	0	263	0.00	0	67.9	67.9	67.9	17.8	17.8
7-8 AM	2170	0.0	255	0.0	OFF	2170	0	255	0.00	0	68.1	68.1	68.1	17.9	17.9
8-9 AM	2095	0.0	247	0.0	OFF	2095	0	247	0.00	0	68.1	68.1	68.1	17.9	17.9
9-10 AM	2157	0.0	254	0.0	1499	1793	363	618	9.39	230	68.1	9.7	30.8	17.9	15.6
10-11 AM	2269	0.0	267	0.0	1500	1527	741	1008	12.85	308	67.9	8.0	30.8	17.8	13.0
11A-NOON	2356	0.0	277	0.0	1500	1526	831	1108	13.87	335	67.8	7.7	30.8	17.7	12.3
NOON-1PM	2420	0.0	285	0.0	1499	1526	894	1179	14.69	356	67.8	7.5	30.8	17.6	11.8
1-2 PM	2628	0.0	310	0.0	1500	1586	1042	1352	17.12	421	67.4	6.8	30.8	17.5	10.7
2-3 PM	2694	0.0	317	0.0	1499	1537	1157	1474	19.27	477	67.4	6.5	30.8	17.4	9.9
3-4 PM	2786	0.0	328	0.0	1499	1501	1285	1612+	19.96	495	67.3	6.3	30.8	17.3	9.6
4-5 PM	2831	0.0	333	0.0	OFF	2831	0	333	0.40	38	67.2	52.5	52.5	17.3	17.3
5-6 PM	2580	0.0	303	0.0	OFF	2580	0	303	0.00	0	67.5	67.5	67.5	17.5	17.5
6-7 PM	2202	0.0	260	0.0	OFF	2202	0	260	0.00	0	68.0	68.0	68.0	17.8	17.8
7-8 PM	1869	0.0	220	0.0	OFF	1869	0	220	0.00	0	68.4	68.4	68.4	18.1	18.1
8-9 PM	1623	0.0	192	0.0	OFF	1623	0	192	0.00	0	68.7	68.7	68.7	18.4	18.4
9-10 PM	1338	0.0	158	0.0	OFF	1338	0	158	0.00	0	69.1	69.1	69.1	18.6	18.6
10-11 PM	1003	0.0	118	0.0	OFF	1003	0	118	0.00	0	69.5	69.5	69.5	18.9	18.9
11PM-MID	678	0.0	80	0.0	OFF	678	0	80	0.00	0	69.9	69.9	69.9	19.3	19.3

"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	0.0110
MAIN ROUTE WITH WORKS	0.0087
DIVERSION	0.0373

PIA: Personal Injury Accidents

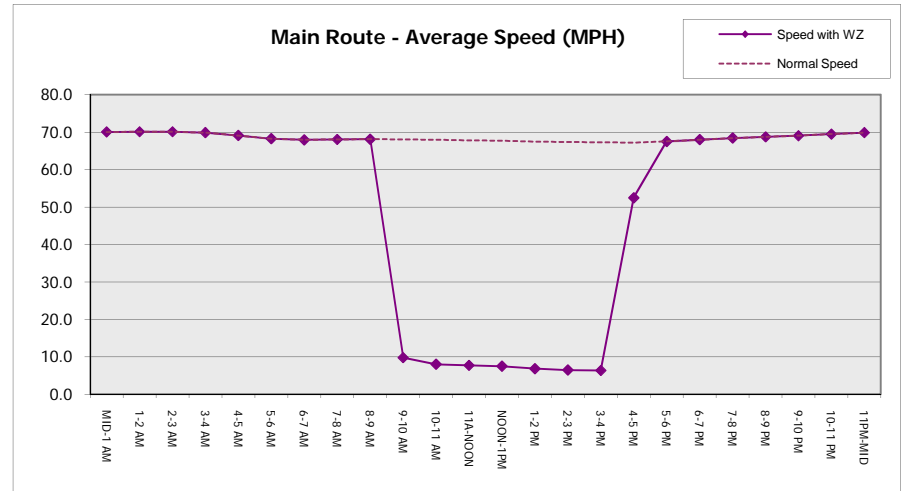
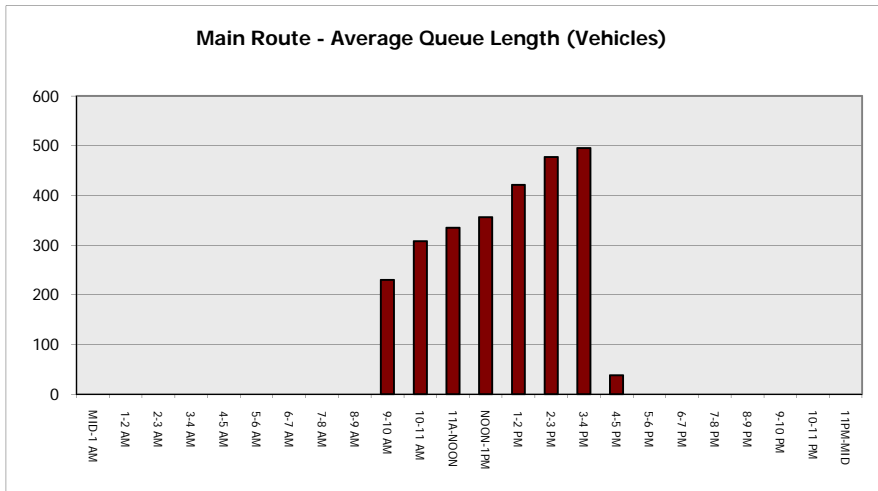
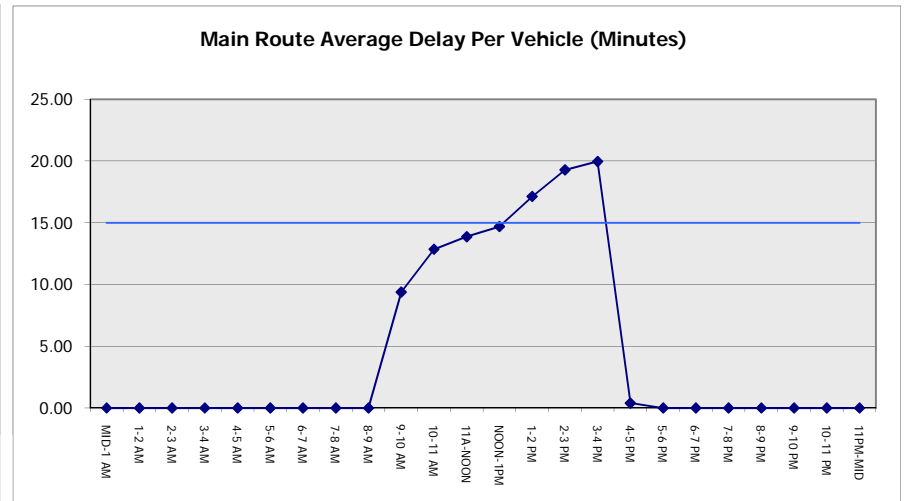
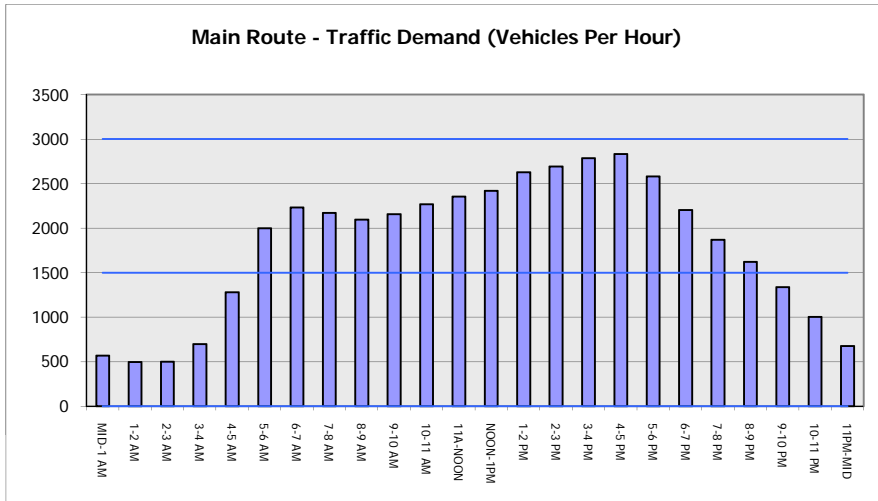
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$65,752
CONGESTED HOURS PER DAY*	3

*Delays Exceeding 15 Minutes

IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)
OFF-PEAK 2 LANE CLOSURE
DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR WESTBOUND DIRECTION



IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY) OFF-PEAK 2 LANE CLOSURE DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD	AUGUST
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT	
MON-THUR	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		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	529	0.0	62	0.0	OFF	529	0	62	0.00	0	70.0	70.0	70.0	19.4	19.4
1-2 AM	354	0.0	42	0.0	OFF	354	0	42	0.00	0	70.2	70.2	70.2	19.6	19.6
2-3 AM	311	0.0	37	0.0	OFF	311	0	37	0.00	0	70.2	70.2	70.2	19.6	19.6
3-4 AM	358	0.0	42	0.0	OFF	358	0	42	0.00	0	70.2	70.2	70.2	19.6	19.6
4-5 AM	517	0.0	61	0.0	OFF	517	0	61	0.00	0	70.1	70.1	70.1	19.4	19.4
5-6 AM	876	0.0	104	0.0	OFF	876	0	104	0.00	0	69.6	69.6	69.6	19.1	19.1
6-7 AM	1536	0.0	181	0.0	OFF	1536	0	181	0.00	0	68.8	68.8	68.8	18.4	18.4
7-8 AM	1925	0.0	227	0.0	OFF	1925	0	227	0.00	0	68.4	68.4	68.4	18.1	18.1
8-9 AM	2126	0.0	250	0.0	OFF	2126	0	250	0.00	0	68.1	68.1	68.1	17.9	17.9
9-10 AM	2581	0.0	303	0.0	1499	1956	624	928	12.52	322	67.5	8.3	30.8	17.5	13.7
10-11 AM	2790	0.0	329	0.0	1499	1539	1251	1579	19.74	489	67.3	6.4	30.8	17.3	9.7
11A-NOON	2724	0.0	321	0.0	1500	1498	1225	1547	19.91	493	67.4	6.3	30.8	17.3	9.6
NOON-1PM	2670	0.0	314	0.0	1499	1493	1177	1491	19.68	487	67.4	6.4	30.8	17.4	9.7
1-2 PM	2775	0.0	326	0.0	1499	1507	1268	1595	19.95	494	67.3	6.3	30.8	17.3	9.6
2-3 PM	2974	0.0	351	0.0	1500	1506	1468	1819+	20.14	499	67.1	6.3	30.8	17.1	9.6
3-4 PM	3122	0.0	367	0.0	1500	1504	1618	1986+	20.29	504	66.9	6.3	30.8	17.0	9.5
4-5 PM	3070	0.0	361	0.0	OFF	3070	0	361	0.45	43	66.9	51.0	51.0	17.0	17.0
5-6 PM	2634	0.0	310	0.0	OFF	2634	0	310	0.00	0	67.4	67.4	67.4	17.5	17.5
6-7 PM	2294	0.0	270	0.0	OFF	2294	0	270	0.00	0	67.9	67.9	67.9	17.8	17.8
7-8 PM	1842	0.0	217	0.0	OFF	1842	0	217	0.00	0	68.4	68.4	68.4	18.2	18.2
8-9 PM	1561	0.0	184	0.0	OFF	1561	0	184	0.00	0	68.8	68.8	68.8	18.4	18.4
9-10 PM	1298	0.0	153	0.0	OFF	1298	0	153	0.00	0	69.1	69.1	69.1	18.7	18.7
10-11 PM	1093	0.0	129	0.0	OFF	1093	0	129	0.00	0	69.4	69.4	69.4	18.9	18.9
11PM-MID	720	0.0	85	0.0	OFF	720	0	85	0.00	0	69.9	69.9	69.9	19.2	19.2

"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	0.0108
MAIN ROUTE WITH WORKS	0.0079
DIVERSION	0.0445

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$90,685
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)
OFF-PEAK 2 LANE CLOSURE
DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR EASTBOUND DIRECTION

