

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

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	512	0.0	61	0.0	OFF	512	0	61	0.00	0	70.1	70.1	70.1	19.4	19.4
1-2 AM	360	0.0	43	0.0	OFF	360	0	43	0.00	0	70.2	70.2	70.2	19.6	19.6
2-3 AM	277	0.0	32	0.0	OFF	277	0	32	0.00	0	70.2	70.2	70.2	19.6	19.6
3-4 AM	275	0.0	32	0.0	OFF	275	0	32	0.00	0	70.2	70.2	70.2	19.6	19.6
4-5 AM	283	0.0	33	0.0	OFF	283	0	33	0.00	0	70.2	70.2	70.2	19.6	19.6
5-6 AM	328	0.0	39	0.0	OFF	328	0	39	0.00	0	70.2	70.2	70.2	19.6	19.6
6-7 AM	439	0.0	51	0.0	OFF	439	0	51	0.00	0	70.2	70.2	70.2	19.5	19.5
7-8 AM	703	0.0	83	0.0	OFF	703	0	83	0.00	0	69.9	69.9	69.9	19.3	19.3
8-9 AM	1109	0.0	131	0.0	OFF	1109	0	131	0.00	0	69.4	69.4	69.4	18.8	18.8
9-10 AM	1648	0.0	194	0.0	1499	1648	0	194	2.01	39	68.7	28.1	31.1	18.3	18.3
10-11 AM	2480	0.0	292	0.0	1499	1772	708	1000	12.93	319	67.6	8.1	30.8	17.6	13.1
11A-NOON	3195	0.0	376	0.0	1499	1534	1661	2037+	20.14	500	66.8	6.3	30.8	16.9	9.6
NOON-1PM	3640	0.0	429	0.0	1499	1500	2140	2569+	20.30	505	66.0	6.3	30.8	16.5	9.5
1-2 PM	4334	0.0	511	0.0	1500	1500	2834	3344+	20.14	505	61.2	6.3	30.8	15.8	9.5
2-3 PM	5026	0.0	591	0.0	1500	1500	3526	4117+	19.94	505	56.5	6.3	30.8	15.2	9.5
3-4 PM	5356	0.0	631	0.0	1500	1500	3856	4487+	19.84	505	54.3	6.3	30.8	14.9	9.5
4-5 PM	5623	0.0	662	0.0	1500	1500	4123	4785+	19.75	505	52.5	6.3	30.8	14.7	9.5
5-6 PM	5271	0.0	621	0.0	1500	1500	3771	4391+	19.87	505	54.8	6.3	30.8	15.0	9.5
6-7 PM	4631	0.0	545	0.0	1500	1500	3131	3677+	20.06	505	59.2	6.3	30.8	15.6	9.5
7-8 PM	3943	0.0	465	0.0	OFF	3943	0	465	0.61	52	63.9	45.5	45.5	16.2	16.2
8-9 PM	3244	0.0	382	0.0	OFF	3244	0	382	0.00	0	66.7	66.7	66.7	16.9	16.9
9-10 PM	2353	0.0	277	0.0	OFF	2353	0	277	0.00	0	67.8	67.8	67.8	17.7	17.7
10-11 PM	1573	0.0	185	0.0	OFF	1573	0	185	0.00	0	68.8	68.8	68.8	18.4	18.4
11PM-MID	1101	0.0	130	0.0	OFF	1101	0	130	0.00	0	69.4	69.4	69.4	18.9	18.9

"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	0.0147
MAIN ROUTE WITH WORKS	0.0071
DIVERSION	0.1062

PIA: Personal Injury Accidents

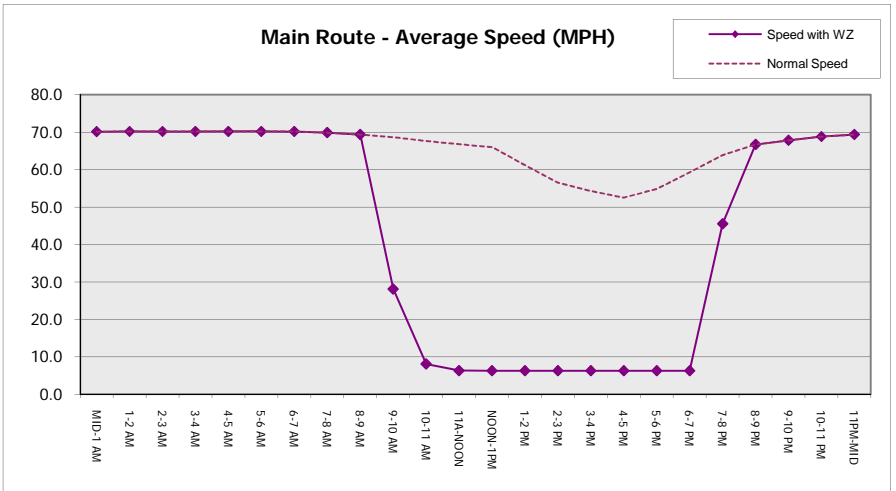
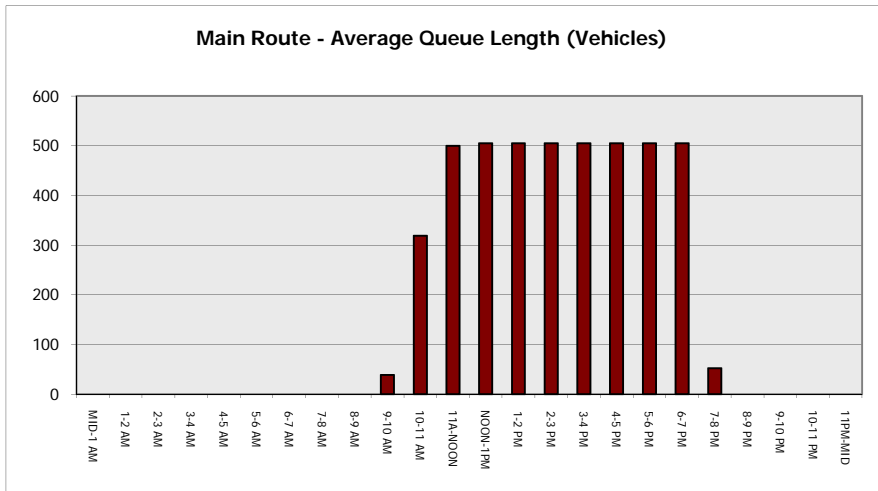
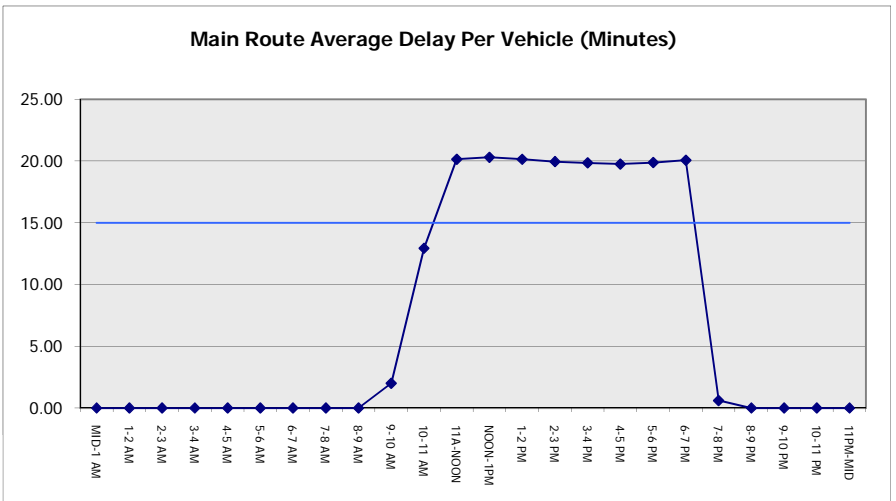
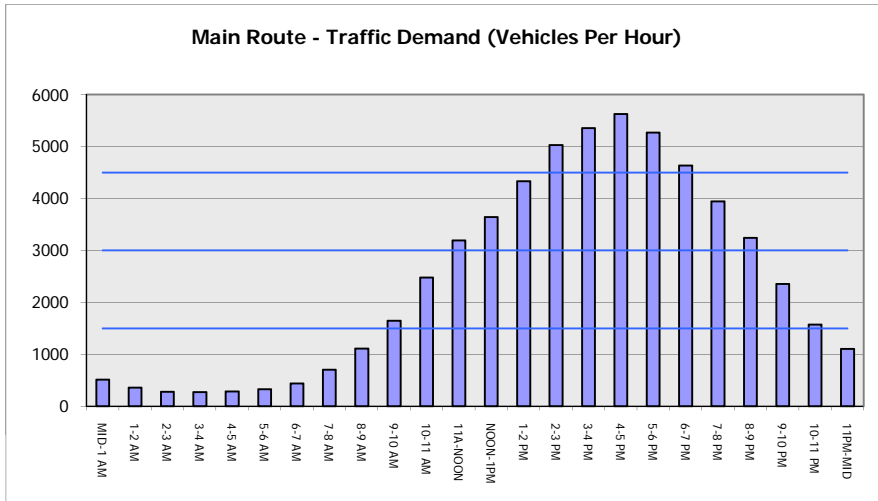
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$238,240
CONGESTED HOURS PER DAY*	8

*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
SUNDAY 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	
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	498	0.0	59	0.0	OFF	498	0	59	0.00	0	70.1	70.1	70.1	19.4	19.4
1-2 AM	327	0.0	39	0.0	OFF	327	0	39	0.00	0	70.2	70.2	70.2	19.6	19.6
2-3 AM	248	0.0	29	0.0	OFF	248	0	29	0.00	0	70.2	70.2	70.2	19.6	19.6
3-4 AM	210	0.0	25	0.0	OFF	210	0	25	0.00	0	70.2	70.2	70.2	19.7	19.7
4-5 AM	223	0.0	26	0.0	OFF	223	0	26	0.00	0	70.2	70.2	70.2	19.7	19.7
5-6 AM	350	0.0	41	0.0	OFF	350	0	41	0.00	0	70.2	70.2	70.2	19.6	19.6
6-7 AM	736	0.0	87	0.0	OFF	736	0	87	0.00	0	69.8	69.8	69.8	19.2	19.2
7-8 AM	1246	0.0	147	0.0	OFF	1246	0	147	0.00	0	69.2	69.2	69.2	18.7	18.7
8-9 AM	1841	0.0	217	0.0	OFF	1841	0	217	0.00	0	68.4	68.4	68.4	18.2	18.2
9-10 AM	2714	0.0	319	0.0	1499	1994	719	1038	13.05	343	67.4	8.1	30.8	17.4	13.5
10-11 AM	3487	0.0	410	0.0	1499	1500	1987	2397+	20.31	505	66.4	6.3	30.8	16.6	9.5
11A-NOON	3649	0.0	430	0.0	1499	1500	2149	2579+	20.30	505	66.0	6.3	30.8	16.5	9.5
NOON-1PM	4024	0.0	474	0.0	1499	1500	2524	2998+	20.21	505	63.3	6.3	30.8	16.1	9.5
1-2 PM	3943	0.0	465	0.0	1500	1500	2443	2907+	20.23	505	63.9	6.3	30.8	16.2	9.5
2-3 PM	3599	0.0	424	0.0	1499	1500	2099	2523+	20.31	505	66.3	6.3	30.8	16.5	9.5
3-4 PM	3462	0.0	407	0.0	1500	1500	1962	2369+	20.32	505	66.4	6.3	30.8	16.6	9.5
4-5 PM	3336	0.0	392	0.0	1500	1500	1836	2229+	20.32	505	66.6	6.3	30.8	16.8	9.5
5-6 PM	2920	0.0	344	0.0	1500	1503	1418	1762+	20.09	498	67.1	6.3	30.8	17.1	9.6
6-7 PM	2619	0.0	309	0.0	1500	1440	1179	1488	19.30	478	67.5	6.5	30.8	17.5	9.9
7-8 PM	2207	0.0	260	0.0	OFF	2207	0	260	0.26	25	68.0	57.3	57.3	17.8	17.8
8-9 PM	1845	0.0	218	0.0	OFF	1845	0	218	0.00	0	68.4	68.4	68.4	18.1	18.1
9-10 PM	1303	0.0	154	0.0	OFF	1303	0	154	0.00	0	69.1	69.1	69.1	18.7	18.7
10-11 PM	902	0.0	106	0.0	OFF	902	0	106	0.00	0	69.6	69.6	69.6	19.1	19.1
11PM-MID	621	0.0	73	0.0	OFF	621	0	73	0.00	0	70.0	70.0	70.0	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	0.0118
MAIN ROUTE WITH WORKS	0.0061
DIVERSION	0.0775

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$202,722
CONGESTED HOURS PER DAY*	9

*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

SUNDAY EASTBOUND DIRECTION

