

IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD	AUGUST Analyzed for 2009 Construction Season
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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	1500	512	0	61	0.53	0	70.1	50.4	43.5	19.4	19.4
1-2 AM	360	0.0	43	0.0	1500	360	0	43	0.52	0	70.2	50.9	44.0	19.6	19.6
2-3 AM	277	0.0	32	0.0	1500	277	0	32	0.51	0	70.2	51.2	44.4	19.6	19.6
3-4 AM	275	0.0	32	0.0	1500	275	0	32	0.51	0	70.2	51.2	44.4	19.6	19.6
4-5 AM	283	0.0	33	0.0	1500	283	0	33	0.51	0	70.2	51.2	44.3	19.6	19.6
5-6 AM	328	0.0	39	0.0	1500	328	0	39	0.51	0	70.2	51.0	44.2	19.6	19.6
6-7 AM	439	0.0	51	0.0	1500	439	0	51	0.53	0	70.2	50.7	43.7	19.5	19.5
7-8 AM	703	0.0	83	0.0	1500	703	0	83	0.55	0	69.9	49.7	42.7	19.3	19.3
8-9 AM	1109	0.0	131	0.0	1499	1109	0	131	0.66	0	69.4	46.9	39.7	18.8	18.8
9-10 AM	1648	0.0	194	0.0	OFF	1648	0	194	0.00	0	68.7	68.7	68.7	18.3	18.3
10-11 AM	2480	0.0	292	0.0	OFF	2480	0	292	0.00	0	67.6	67.6	67.6	17.6	17.6
11A-NOON	3195	0.0	376	0.0	OFF	3195	0	376	0.00	0	66.8	66.8	66.8	16.9	16.9
NOON-1PM	3640	0.0	429	0.0	OFF	3640	0	429	0.00	0	66.0	66.0	66.0	16.5	16.5
1-2 PM	4334	0.0	511	0.0	OFF	4334	0	511	0.00	0	61.2	61.2	61.2	15.8	15.8
2-3 PM	5026	0.0	591	0.0	OFF	5026	0	591	0.00	0	56.5	56.5	56.5	15.2	15.2
3-4 PM	5356	0.0	631	0.0	OFF	5356	0	631	0.00	0	54.3	54.3	54.3	14.9	14.9
4-5 PM	5623	0.0	662	0.0	OFF	5623	0	662	0.00	0	52.5	52.5	52.5	14.7	14.7
5-6 PM	5271	0.0	621	0.0	OFF	5271	0	621	0.00	0	54.8	54.8	54.8	15.0	15.0
6-7 PM	4631	0.0	545	0.0	OFF	4631	0	545	0.00	0	59.2	59.2	59.2	15.6	15.6
7-8 PM	3943	0.0	465	0.0	1499	1678	2265	2729+	18.79	475	63.9	6.6	36.3	16.2	10.1
8-9 PM	3244	0.0	382	0.0	1499	1750	1494	1876+	18.44	464	66.7	6.6	30.8	16.9	10.3
9-10 PM	2353	0.0	277	0.0	1499	1371	982	1259	15.79	388	67.8	7.1	30.8	17.7	11.3
10-11 PM	1573	0.0	185	0.0	1500	1343	230	415	8.57	200	68.8	10.2	31.1	18.4	17.1
11PM-MID	1101	0.0	130	0.0	1499	1101	0	130	1.45	38	69.4	33.8	37.9	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	0.0126
DIVERSION	0.0384

PIA: Personal Injury Accidents

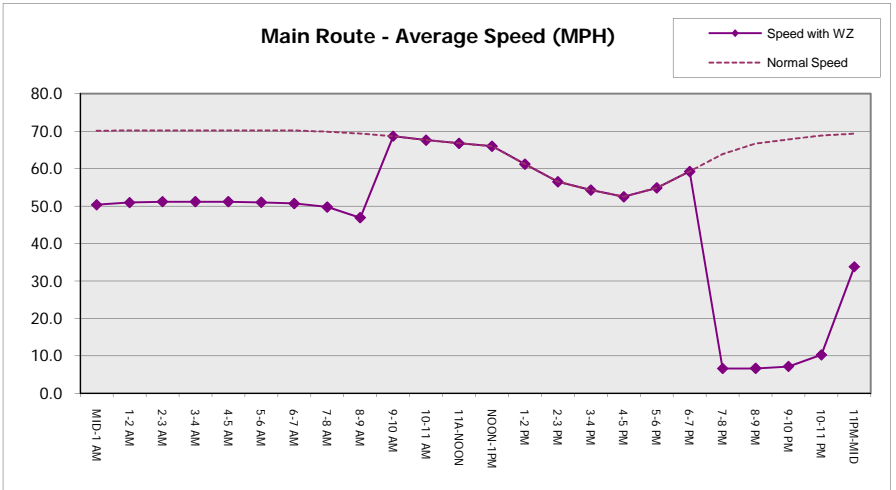
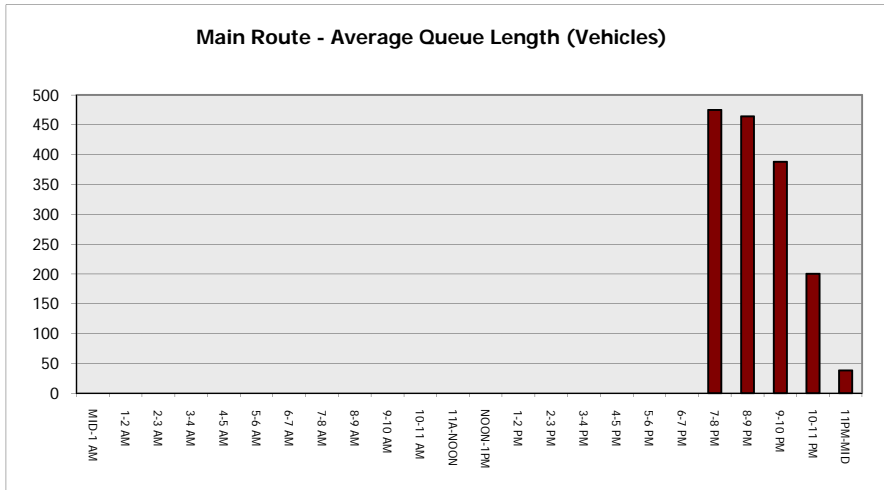
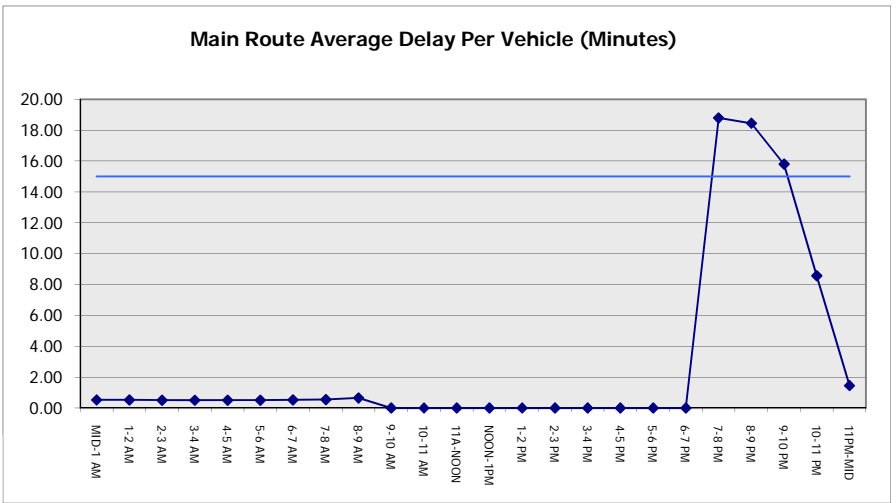
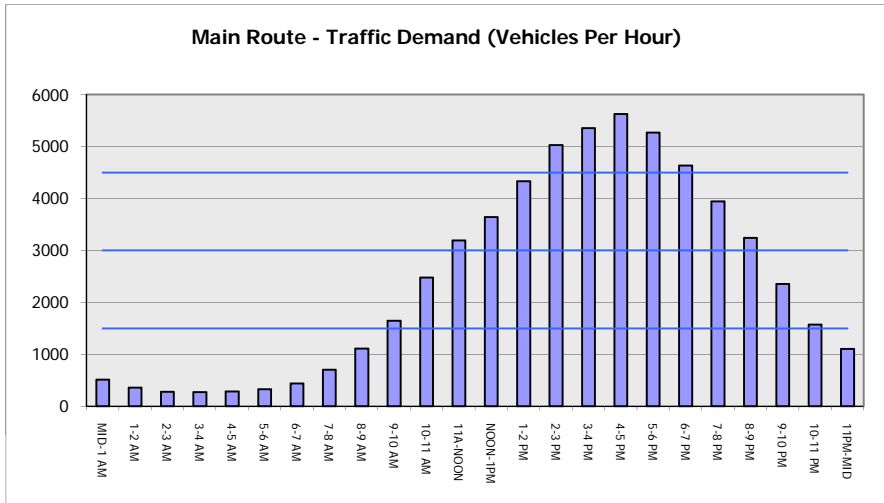
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$53,323
CONGESTED HOURS PER DAY*	3

*Delays Exceeding 15 Minutes

IH 94: STH 35 N TO CARMICHAEL RD (ST CROIX COUNTY)
NIGHTTIME 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) NIGHTTIME 2 LANE CLOSURE DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD	AUGUST
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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	498	0.0	59	0.0	1500	498	0	59	0.53	0	70.1	50.4	43.5	19.4	19.4
1-2 AM	327	0.0	39	0.0	1500	327	0	39	0.51	0	70.2	51.0	44.2	19.6	19.6
2-3 AM	248	0.0	29	0.0	1500	248	0	29	0.50	0	70.2	51.3	44.5	19.6	19.6
3-4 AM	210	0.0	25	0.0	1500	210	0	25	0.50	0	70.2	51.4	44.6	19.7	19.7
4-5 AM	223	0.0	26	0.0	1500	223	0	26	0.50	0	70.2	51.4	44.6	19.7	19.7
5-6 AM	350	0.0	41	0.0	1500	350	0	41	0.52	0	70.2	50.9	44.1	19.6	19.6
6-7 AM	736	0.0	87	0.0	1500	736	0	87	0.56	0	69.8	49.6	42.6	19.2	19.2
7-8 AM	1246	0.0	147	0.0	1499	1246	0	147	0.76	0	69.2	44.7	37.3	18.7	18.7
8-9 AM	1841	0.0	217	0.0	1499	1784	57	273	4.23	111	68.4	17.4	30.8	18.2	17.9
9-10 AM	2714	0.0	319	0.0	OFF	2714	0	319	0.13	12	67.4	61.7	61.7	17.4	17.4
10-11 AM	3487	0.0	410	0.0	OFF	3487	0	410	0.00	0	66.4	66.4	66.4	16.6	16.6
11A-NOON	3649	0.0	430	0.0	OFF	3649	0	430	0.00	0	66.0	66.0	66.0	16.5	16.5
NOON-1PM	4024	0.0	474	0.0	OFF	4024	0	474	0.00	0	63.3	63.3	63.3	16.1	16.1
1-2 PM	3943	0.0	465	0.0	OFF	3943	0	465	0.00	0	63.9	63.9	63.9	16.2	16.2
2-3 PM	3599	0.0	424	0.0	OFF	3599	0	424	0.00	0	66.3	66.3	66.3	16.5	16.5
3-4 PM	3462	0.0	407	0.0	OFF	3462	0	407	0.00	0	66.4	66.4	66.4	16.6	16.6
4-5 PM	3336	0.0	392	0.0	OFF	3336	0	392	0.00	0	66.6	66.6	66.6	16.8	16.8
5-6 PM	2920	0.0	344	0.0	OFF	2920	0	344	0.00	0	67.1	67.1	67.1	17.1	17.1
6-7 PM	2619	0.0	309	0.0	OFF	2619	0	309	0.00	0	67.5	67.5	67.5	17.5	17.5
7-8 PM	2207	0.0	260	0.0	1499	1784	423	683	10.43	254	68.0	9.1	30.8	17.8	15.3
8-9 PM	1845	0.0	218	0.0	1500	1419	426	643	10.06	236	68.4	9.3	30.8	18.1	15.5
9-10 PM	1303	0.0	154	0.0	1499	1285	18	172	4.47	116	69.1	16.6	33.2	18.7	18.6
10-11 PM	902	0.0	106	0.0	1500	902	0	106	0.58	0	69.6	49.1	42.0	19.1	19.1
11PM-MID	621	0.0	73	0.0	1500	621	0	73	0.55	0	70.0	50.0	43.0	19.3	19.3

"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	0.0118
MAIN ROUTE WITH WORKS	0.0108
DIVERSION	0.0208

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$16,607
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**

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

