

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

SUMMARY OF TRAFFIC MODEL OUTPUT

FRIDAY 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	586	0.0	69	0.0	OFF	586	0	69	0.00	0	70.0	70.0	70.0	19.3	19.3
1-2 AM	506	0.0	60	0.0	OFF	506	0	60	0.00	0	70.1	70.1	70.1	19.4	19.4
2-3 AM	555	0.0	65	0.0	OFF	555	0	65	0.00	0	70.0	70.0	70.0	19.4	19.4
3-4 AM	641	0.0	75	0.0	OFF	641	0	75	0.00	0	69.9	69.9	69.9	19.3	19.3
4-5 AM	973	0.0	114	0.0	OFF	973	0	114	0.00	0	69.6	69.6	69.6	19.0	19.0
5-6 AM	1746	0.0	205	0.0	OFF	1746	0	205	0.00	0	68.6	68.6	68.6	18.3	18.3
6-7 AM	2032	0.0	240	0.0	OFF	2032	0	240	0.00	0	68.2	68.2	68.2	18.0	18.0
7-8 AM	2199	0.0	259	0.0	OFF	2199	0	259	0.00	0	68.0	68.0	68.0	17.8	17.8
8-9 AM	2046	0.0	241	0.0	OFF	2046	0	241	0.00	0	68.2	68.2	68.2	18.0	18.0
9-10 AM	2129	0.0	251	0.0	1499	1790	339	590	8.89	218	68.1	10.1	30.8	17.9	15.8
10-11 AM	2403	0.0	283	0.0	1500	1584	819	1101	13.81	334	67.8	7.7	30.8	17.6	12.4
11A-NOON	2698	0.0	318	0.0	1500	1624	1074	1392	17.80	439	67.4	6.7	30.8	17.4	10.4
NOON-1PM	2890	0.0	340	0.0	1499	1501	1389	1729+	20.07	497	67.1	6.3	30.8	17.2	9.6
1-2 PM	3337	0.0	394	0.0	1499	1500	1837	2231+	20.32	505	66.6	6.3	30.8	16.8	9.5
2-3 PM	3673	0.0	432	0.0	1500	1500	2173	2605+	20.29	505	65.8	6.3	30.8	16.5	9.5
3-4 PM	3664	0.0	431	0.0	1500	1500	2164	2595+	20.30	505	65.8	6.3	30.8	16.5	9.5
4-5 PM	3619	0.0	426	0.0	OFF	3619	0	426	0.60	52	66.1	46.7	46.7	16.5	16.5
5-6 PM	3379	0.0	398	0.0	OFF	3379	0	398	0.00	0	66.5	66.5	66.5	16.8	16.8
6-7 PM	2916	0.0	343	0.0	OFF	2916	0	343	0.00	0	67.1	67.1	67.1	17.2	17.2
7-8 PM	2427	0.0	286	0.0	OFF	2427	0	286	0.00	0	67.7	67.7	67.7	17.6	17.6
8-9 PM	2069	0.0	244	0.0	OFF	2069	0	244	0.00	0	68.2	68.2	68.2	17.9	17.9
9-10 PM	1590	0.0	187	0.0	OFF	1590	0	187	0.00	0	68.7	68.7	68.7	18.4	18.4
10-11 PM	1256	0.0	148	0.0	OFF	1256	0	148	0.00	0	69.2	69.2	69.2	18.7	18.7
11PM-MID	775	0.0	91	0.0	OFF	775	0	91	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	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	0.0095
DIVERSION	0.0512

PIA: Personal Injury Accidents

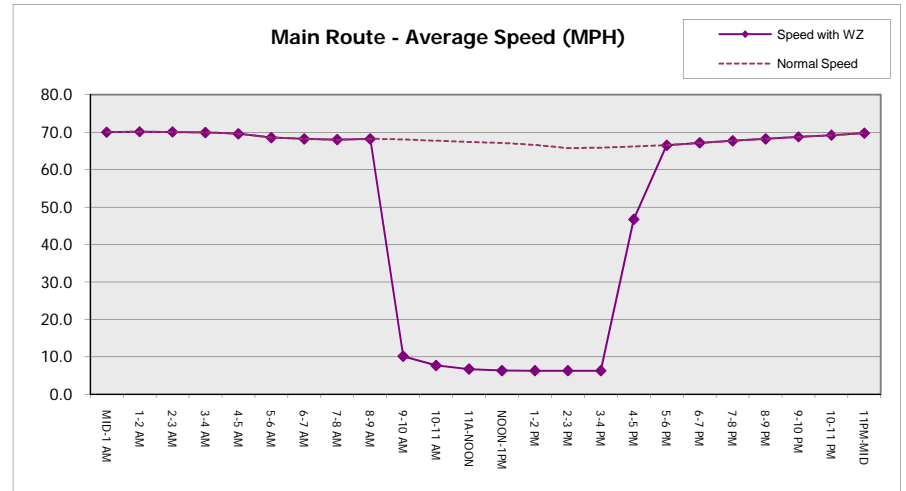
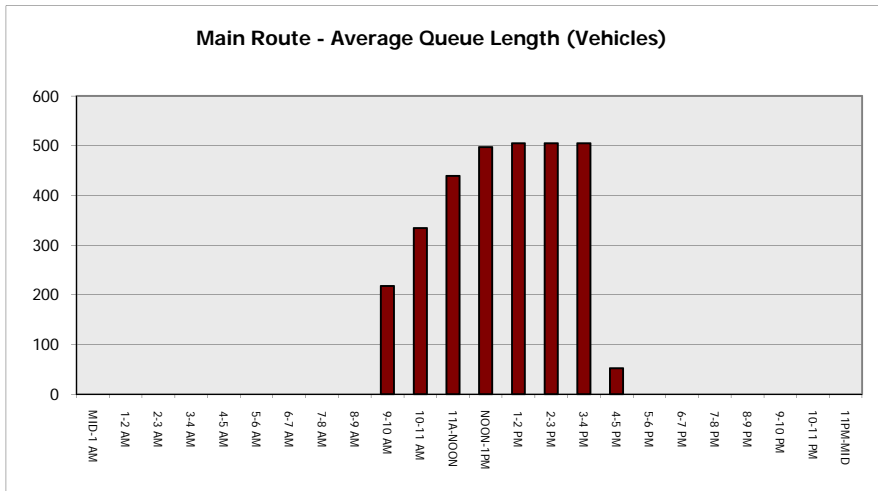
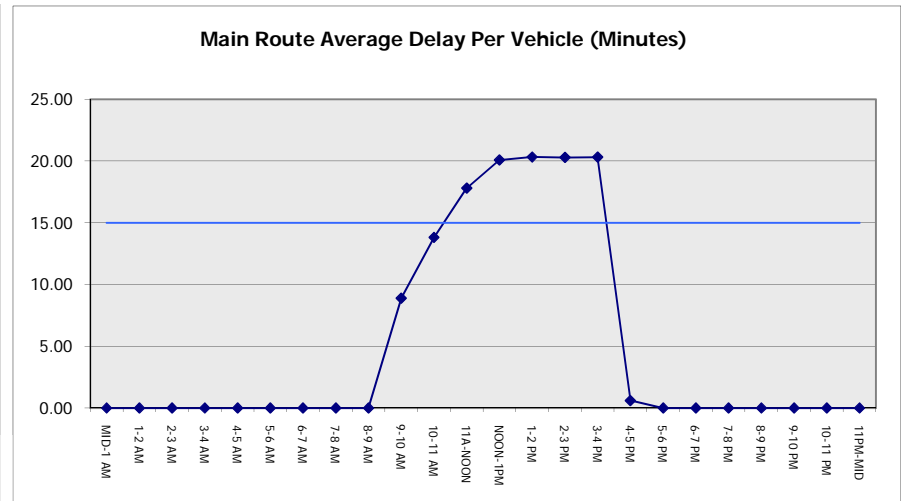
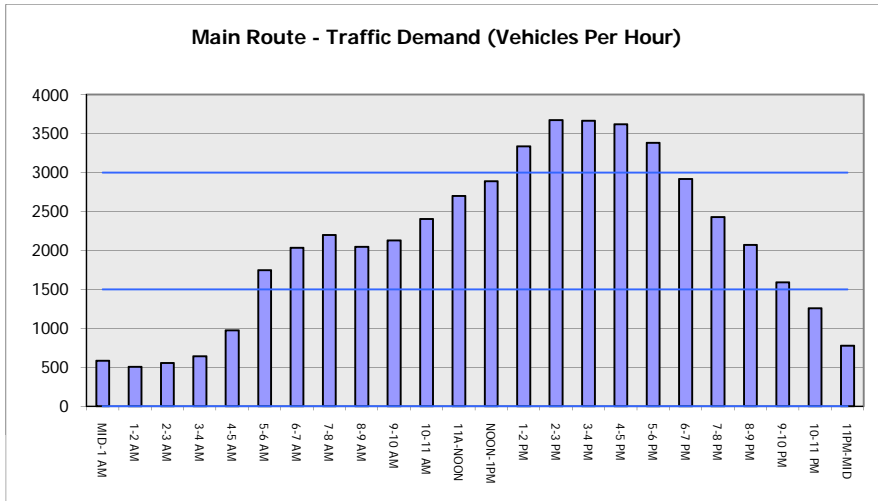
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$93,680
CONGESTED HOURS PER DAY*	5

*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
FRIDAY WESTBOUND DIRECTION



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
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SUMMARY OF TRAFFIC MODEL OUTPUT	
FRIDAY	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	561	0.0	66	0.0	OFF	561	0	66	0.00	0	70.0	70.0	70.0	19.4	19.4
1-2 AM	413	0.0	48	0.0	OFF	413	0	48	0.00	0	70.2	70.2	70.2	19.5	19.5
2-3 AM	321	0.0	38	0.0	OFF	321	0	38	0.00	0	70.2	70.2	70.2	19.6	19.6
3-4 AM	373	0.0	44	0.0	OFF	373	0	44	0.00	0	70.2	70.2	70.2	19.5	19.5
4-5 AM	457	0.0	53	0.0	OFF	457	0	53	0.00	0	70.2	70.2	70.2	19.4	19.4
5-6 AM	812	0.0	95	0.0	OFF	812	0	95	0.00	0	69.7	69.7	69.7	19.1	19.1
6-7 AM	1254	0.0	148	0.0	OFF	1254	0	148	0.00	0	69.2	69.2	69.2	18.7	18.7
7-8 AM	1962	0.0	231	0.0	OFF	1962	0	231	0.00	0	68.3	68.3	68.3	18.1	18.1
8-9 AM	2209	0.0	261	0.0	OFF	2209	0	261	0.00	0	68.0	68.0	68.0	17.8	17.8
9-10 AM	2790	0.0	329	0.0	1499	1981	809	1138	13.69	359	67.3	7.9	30.8	17.3	13.0
10-11 AM	3294	0.0	388	0.0	1500	1504	1790	2178+	20.30	504	66.6	6.3	30.8	16.8	9.5
11A-NOON	3364	0.0	396	0.0	1500	1500	1864	2260+	20.32	505	66.6	6.3	30.8	16.8	9.5
NOON-1PM	3426	0.0	403	0.0	1500	1500	1926	2329+	20.32	505	66.4	6.3	30.8	16.7	9.5
1-2 PM	4045	0.0	476	0.0	1499	1500	2545	3021+	20.21	505	63.2	6.3	30.8	16.1	9.5
2-3 PM	4296	0.0	506	0.0	1500	1500	2796	3301+	20.15	505	61.5	6.3	30.8	15.9	9.5
3-4 PM	4517	0.0	532	0.0	1499	1500	3017	3549+	20.09	505	60.0	6.3	30.8	15.7	9.5
4-5 PM	4453	0.0	524	0.0	OFF	4453	0	524	0.85	76	60.4	39.3	39.3	15.8	15.8
5-6 PM	4058	0.0	478	0.0	OFF	4058	0	478	0.00	0	63.2	63.2	63.2	16.1	16.1
6-7 PM	3731	0.0	440	0.0	OFF	3731	0	440	0.00	0	65.4	65.4	65.4	16.4	16.4
7-8 PM	2863	0.0	337	0.0	OFF	2863	0	337	0.00	0	67.2	67.2	67.2	17.2	17.2
8-9 PM	1870	0.0	220	0.0	OFF	1870	0	220	0.00	0	68.4	68.4	68.4	18.1	18.1
9-10 PM	1478	0.0	174	0.0	OFF	1478	0	174	0.00	0	68.9	68.9	68.9	18.5	18.5
10-11 PM	1198	0.0	141	0.0	OFF	1198	0	141	0.00	0	69.2	69.2	69.2	18.8	18.8
11PM-MID	897	0.0	106	0.0	OFF	897	0	106	0.00	0	69.6	69.6	69.6	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	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	0.0139
MAIN ROUTE WITH WORKS	0.0094
DIVERSION	0.0691

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$125,698
CONGESTED HOURS PER DAY*	6

*Delays Exceeding 15 Minutes

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 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
FRIDAY EASTBOUND DIRECTION

