

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

SATURDAY 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	591	0.0	69	0.0	OFF	591	0	69	0.00	0	70.0	70.0	70.0	19.3	19.3
1-2 AM	442	0.0	52	0.0	OFF	442	0	52	0.00	0	70.2	70.2	70.2	19.4	19.4
2-3 AM	402	0.0	47	0.0	OFF	402	0	47	0.00	0	70.2	70.2	70.2	19.5	19.5
3-4 AM	398	0.0	47	0.0	OFF	398	0	47	0.00	0	70.2	70.2	70.2	19.5	19.5
4-5 AM	484	0.0	57	0.0	OFF	484	0	57	0.00	0	70.1	70.1	70.1	19.4	19.4
5-6 AM	633	0.0	74	0.0	OFF	633	0	74	0.00	0	69.9	69.9	69.9	19.3	19.3
6-7 AM	763	0.0	90	0.0	OFF	763	0	90	0.00	0	69.8	69.8	69.8	19.2	19.2
7-8 AM	1134	0.0	134	0.0	OFF	1134	0	134	0.00	0	69.3	69.3	69.3	18.8	18.8
8-9 AM	1541	0.0	181	0.0	1499	1541	0	181	1.61	20	68.8	31.9	31.7	18.4	18.4
9-10 AM	2143	0.0	252	0.0	1500	1729	415	667	9.92	242	68.1	9.4	30.8	17.9	15.3
10-11 AM	2558	0.0	301	0.0	1500	1620	938	1240	15.49	379	67.6	7.3	30.8	17.5	11.4
11A-NOON	2685	0.0	316	0.0	1499	1550	1135	1451	18.85	465	67.4	6.5	30.8	17.4	10.0
NOON-1PM	2505	0.0	295	0.0	1499	1416	1088	1383	17.64	434	67.6	6.8	30.8	17.6	10.4
1-2 PM	2432	0.0	287	0.0	1500	1474	959	1246	15.54	379	67.7	7.2	30.8	17.6	11.4
2-3 PM	2534	0.0	298	0.0	1500	1541	994	1292	16.18	396	67.6	7.1	30.8	17.5	11.1
3-4 PM	2565	0.0	302	0.0	1499	1516	1049	1352	17.10	419	67.6	6.8	30.8	17.5	10.7
4-5 PM	2650	0.0	312	0.0	1500	1531	1119	1431	18.46	455	67.4	6.6	30.8	17.4	10.1
5-6 PM	2354	0.0	277	0.0	1499	1369	985	1262	15.82	387	67.8	7.1	30.8	17.7	11.3
6-7 PM	2009	0.0	237	0.0	OFF	2009	0	237	0.14	13	68.2	61.9	61.9	18.0	18.0
7-8 PM	1885	0.0	222	0.0	OFF	1885	0	222	0.00	0	68.4	68.4	68.4	18.1	18.1
8-9 PM	1539	0.0	181	0.0	OFF	1539	0	181	0.00	0	68.8	68.8	68.8	18.4	18.4
9-10 PM	1390	0.0	163	0.0	OFF	1390	0	163	0.00	0	69.0	69.0	69.0	18.6	18.6
10-11 PM	1050	0.0	123	0.0	OFF	1050	0	123	0.00	0	69.4	69.4	69.4	18.9	18.9
11PM-MID	677	0.0	80	0.0	OFF	677	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)

----- 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	0.0095
MAIN ROUTE WITH WORKS	0.0063
DIVERSION	0.0427

PIA: Personal Injury Accidents

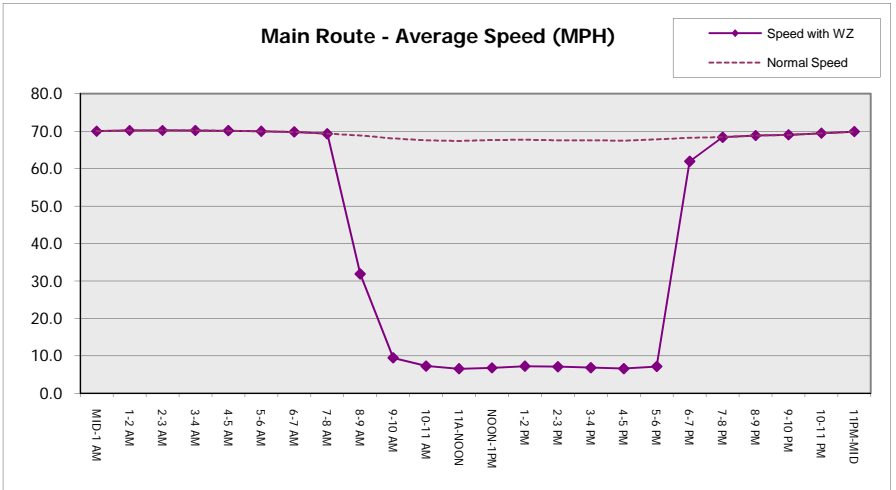
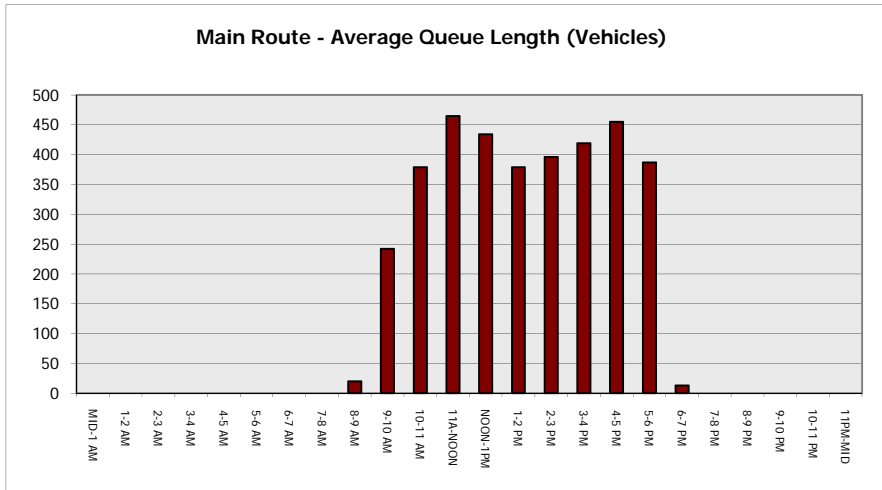
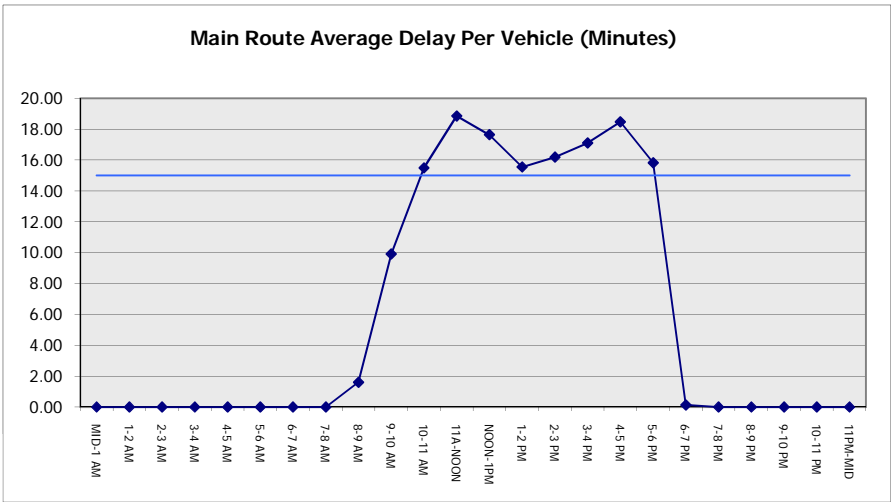
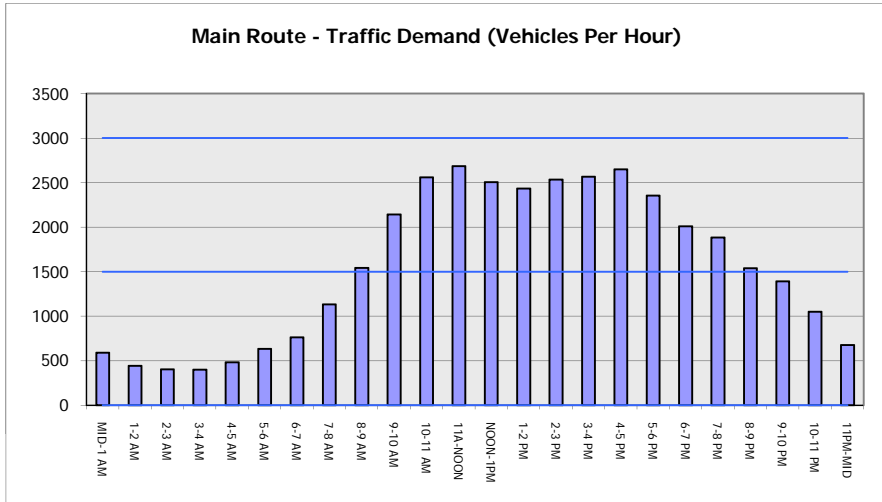
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$110,934
CONGESTED HOURS PER DAY*	8

*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
SATURDAY 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	
SATURDAY	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	628	0.0	74	0.0	OFF	628	0	74	0.00	0	69.9	69.9	69.9	19.3	19.3
1-2 AM	398	0.0	47	0.0	OFF	398	0	47	0.00	0	70.2	70.2	70.2	19.5	19.5
2-3 AM	305	0.0	36	0.0	OFF	305	0	36	0.00	0	70.2	70.2	70.2	19.6	19.6
3-4 AM	325	0.0	39	0.0	OFF	325	0	39	0.00	0	70.2	70.2	70.2	19.6	19.6
4-5 AM	410	0.0	48	0.0	OFF	410	0	48	0.00	0	70.2	70.2	70.2	19.5	19.5
5-6 AM	612	0.0	72	0.0	OFF	612	0	72	0.00	0	70.0	70.0	70.0	19.3	19.3
6-7 AM	1045	0.0	123	0.0	OFF	1045	0	123	0.00	0	69.4	69.4	69.4	18.9	18.9
7-8 AM	1625	0.0	192	0.0	OFF	1625	0	192	0.00	0	68.7	68.7	68.7	18.4	18.4
8-9 AM	2205	0.0	260	0.0	1499	1832	373	632	8.99	226	68.0	10.1	30.8	17.8	15.5
9-10 AM	2780	0.0	328	0.0	1500	1658	1123	1451	17.70	438	67.3	6.8	30.8	17.3	10.5
10-11 AM	3074	0.0	362	0.0	1500	1512	1562	1924+	20.24	502	66.9	6.3	30.8	17.0	9.6
11A-NOON	2978	0.0	351	0.0	1500	1499	1479	1830+	20.15	500	67.0	6.3	30.8	17.1	9.6
NOON-1PM	2698	0.0	318	0.0	1500	1481	1217	1535	19.82	491	67.4	6.4	30.8	17.4	9.7
1-2 PM	2581	0.0	304	0.0	1499	1454	1127	1431	18.47	455	67.5	6.6	30.8	17.5	10.1
2-3 PM	2547	0.0	300	0.0	1500	1481	1065	1366	17.32	425	67.6	6.8	30.8	17.5	10.6
3-4 PM	2470	0.0	291	0.0	1499	1468	1002	1292	16.20	396	67.7	7.1	30.8	17.6	11.1
4-5 PM	2478	0.0	292	0.0	1500	1497	981	1273	15.91	388	67.6	7.1	30.8	17.6	11.2
5-6 PM	2261	0.0	266	0.0	1499	1417	844	1109	13.91	336	67.9	7.7	30.8	17.8	12.3
6-7 PM	1896	0.0	223	0.0	OFF	1896	0	223	0.12	10	68.4	63.2	63.2	18.1	18.1
7-8 PM	1620	0.0	190	0.0	OFF	1620	0	190	0.00	0	68.7	68.7	68.7	18.4	18.4
8-9 PM	1327	0.0	156	0.0	OFF	1327	0	156	0.00	0	69.1	69.1	69.1	18.6	18.6
9-10 PM	1122	0.0	132	0.0	OFF	1122	0	132	0.00	0	69.4	69.4	69.4	18.8	18.8
10-11 PM	937	0.0	110	0.0	OFF	937	0	110	0.00	0	69.6	69.6	69.6	19.0	19.0
11PM-MID	688	0.0	81	0.0	OFF	688	0	81	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	0.0099
MAIN ROUTE WITH WORKS	0.0062
DIVERSION	0.0501

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$135,211
CONGESTED HOURS PER DAY*	8

*Delays Exceeding 15 Minutes

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 OFF-PEAK DAY 2 LANE CLOSURE
 DIVERSION ROUTE: STH 35 - COULEE RD - CARMICHAEL RD**

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SATURDAY EASTBOUND DIRECTION

