

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

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	710	0.0	84	0.0	OFF	710	0	84	0.00	0	69.9	69.9	69.9	19.2	19.2
1-2 AM	509	0.0	60	0.0	OFF	509	0	60	0.00	0	70.1	70.1	70.1	19.4	19.4
2-3 AM	421	0.0	49	0.0	OFF	421	0	49	0.00	0	70.2	70.2	70.2	19.5	19.5
3-4 AM	451	0.0	53	0.0	OFF	451	0	53	0.00	0	70.2	70.2	70.2	19.4	19.4
4-5 AM	559	0.0	66	0.0	OFF	559	0	66	0.00	0	70.0	70.0	70.0	19.4	19.4
5-6 AM	669	0.0	78	0.0	OFF	669	0	78	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	1189	0.0	140	0.0	OFF	1189	0	140	0.00	0	69.2	69.2	69.2	18.8	18.8
8-9 AM	1623	0.0	192	0.0	1499	1623	0	192	1.90	31	68.7	29.1	30.8	18.4	18.4
9-10 AM	2218	0.0	262	0.0	1499	1712	507	768	10.78	261	68.0	8.9	30.8	17.8	14.7
10-11 AM	2864	0.0	337	0.0	1500	1650	1214	1551	18.36	455	67.2	6.6	30.8	17.2	10.2
11A-NOON	3000	0.0	354	0.0	1500	1512	1488	1842+	20.16	500	67.0	6.3	30.8	17.1	9.6
NOON-1PM	2907	0.0	342	0.0	1500	1500	1407	1750+	20.08	498	67.1	6.3	30.8	17.2	9.6
1-2 PM	3107	0.0	366	0.0	1499	1505	1602	1968+	20.28	503	66.9	6.3	30.8	17.0	9.5
2-3 PM	3013	0.0	355	0.0	1500	1498	1515	1870+	20.19	501	67.0	6.3	30.8	17.1	9.6
3-4 PM	3010	0.0	355	0.0	1499	1500	1510	1865+	20.18	501	67.0	6.3	30.8	17.1	9.6
4-5 PM	2848	0.0	336	0.0	1500	1496	1352	1688+	20.03	496	67.2	6.3	30.8	17.2	9.6
5-6 PM	2546	0.0	299	0.0	1499	1411	1135	1434	18.56	458	67.6	6.6	30.8	17.5	10.1
6-7 PM	2240	0.0	264	0.0	OFF	2240	0	264	0.23	22	67.9	58.4	58.4	17.8	17.8
7-8 PM	1892	0.0	223	0.0	OFF	1892	0	223	0.00	0	68.4	68.4	68.4	18.1	18.1
8-9 PM	1657	0.0	195	0.0	OFF	1657	0	195	0.00	0	68.7	68.7	68.7	18.3	18.3
9-10 PM	1487	0.0	175	0.0	OFF	1487	0	175	0.00	0	68.9	68.9	68.9	18.5	18.5
10-11 PM	1113	0.0	131	0.0	OFF	1113	0	131	0.00	0	69.4	69.4	69.4	18.8	18.8
11PM-MID	725	0.0	86	0.0	OFF	725	0	86	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	0.0106
MAIN ROUTE WITH WORKS	0.0066
DIVERSION	0.0542

PIA: Personal Injury Accidents

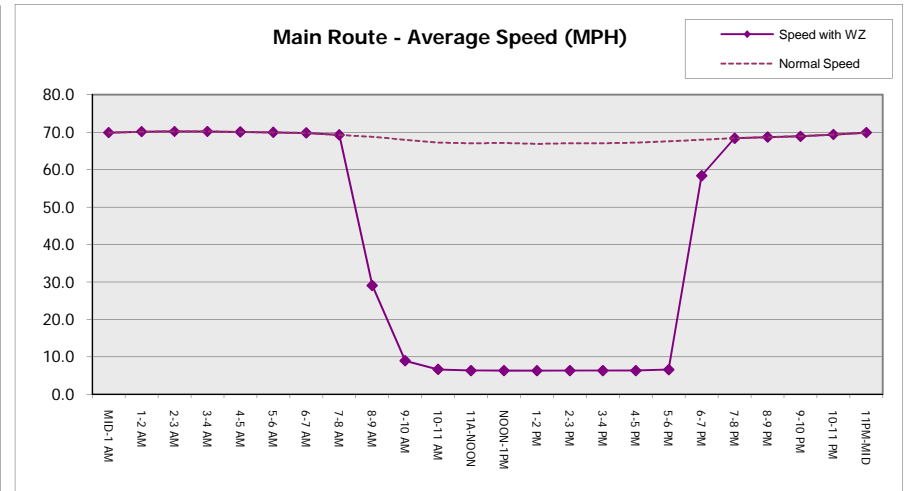
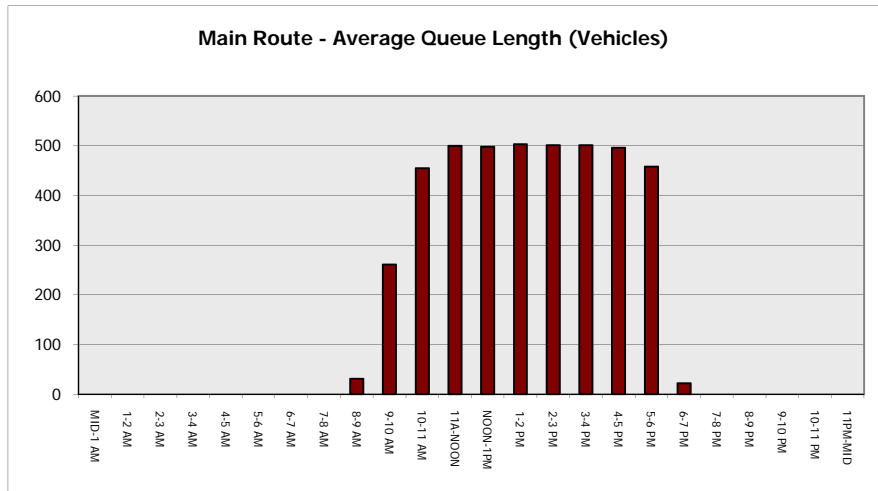
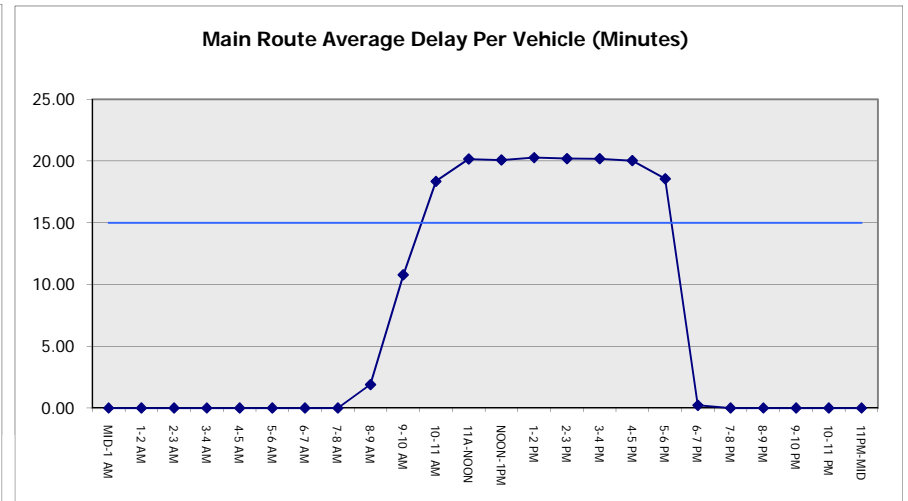
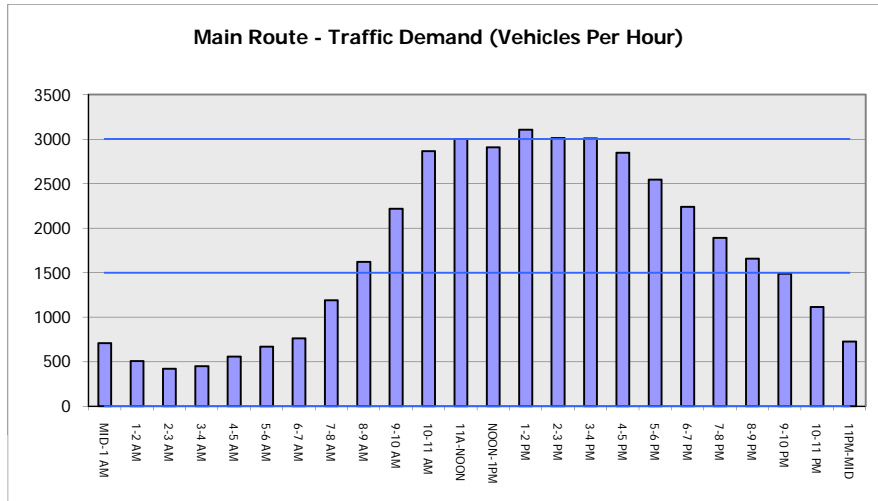
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$147,879
CONGESTED HOURS PER DAY*	8

*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
SATURDAY 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	
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		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	731	0.0	86	0.0	OFF	731	0	86	0.00	0	69.8	69.8	69.8	19.2	19.2
1-2 AM	433	0.0	51	0.0	OFF	433	0	51	0.00	0	70.2	70.2	70.2	19.5	19.5
2-3 AM	358	0.0	42	0.0	OFF	358	0	42	0.00	0	70.2	70.2	70.2	19.6	19.6
3-4 AM	324	0.0	39	0.0	OFF	324	0	39	0.00	0	70.2	70.2	70.2	19.6	19.6
4-5 AM	405	0.0	48	0.0	OFF	405	0	48	0.00	0	70.2	70.2	70.2	19.5	19.5
5-6 AM	606	0.0	71	0.0	OFF	606	0	71	0.00	0	70.0	70.0	70.0	19.3	19.3
6-7 AM	1115	0.0	131	0.0	OFF	1115	0	131	0.00	0	69.4	69.4	69.4	18.8	18.8
7-8 AM	1886	0.0	222	0.0	OFF	1886	0	222	0.00	0	68.4	68.4	68.4	18.1	18.1
8-9 AM	2692	0.0	317	0.0	1499	1999	693	1010	13.01	341	67.4	8.1	30.8	17.4	13.5
9-10 AM	3317	0.0	390	0.0	1499	1500	1816	2207+	20.32	505	66.6	6.3	30.8	16.8	9.5
10-11 AM	3747	0.0	442	0.0	1500	1500	2247	2689+	20.28	505	65.3	6.3	30.8	16.4	9.5
11A-NOON	3560	0.0	420	0.0	1500	1500	2060	2479+	20.31	505	66.3	6.3	30.8	16.6	9.5
NOON-1PM	3274	0.0	385	0.0	1500	1500	1773	2159+	20.32	505	66.7	6.3	30.8	16.8	9.5
1-2 PM	2930	0.0	345	0.0	1500	1499	1431	1776+	20.10	498	67.1	6.3	30.8	17.1	9.6
2-3 PM	2757	0.0	324	0.0	1500	1496	1261	1585	19.94	494	67.3	6.3	30.8	17.3	9.6
3-4 PM	2663	0.0	314	0.0	1499	1471	1192	1506	19.62	486	67.4	6.4	30.8	17.4	9.7
4-5 PM	2340	0.0	275	0.0	1499	1364	976	1251	15.67	384	67.8	7.2	30.8	17.7	11.4
5-6 PM	2234	0.0	263	0.0	1500	1464	770	1032	13.09	314	67.9	7.9	30.8	17.8	12.8
6-7 PM	1912	0.0	225	0.0	OFF	1912	0	225	0.11	10	68.4	63.2	63.2	18.1	18.1
7-8 PM	1664	0.0	196	0.0	OFF	1664	0	196	0.00	0	68.7	68.7	68.7	18.3	18.3
8-9 PM	1466	0.0	173	0.0	OFF	1466	0	173	0.00	0	68.9	68.9	68.9	18.5	18.5
9-10 PM	1236	0.0	145	0.0	OFF	1236	0	145	0.00	0	69.2	69.2	69.2	18.8	18.8
10-11 PM	980	0.0	115	0.0	OFF	980	0	115	0.00	0	69.5	69.5	69.5	18.9	18.9
11PM-MID	732	0.0	86	0.0	OFF	732	0	86	0.00	0	69.8	69.8	69.8	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	0.0110
MAIN ROUTE WITH WORKS	0.0064
DIVERSION	0.0630

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$166,569
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
SATURDAY EASTBOUND DIRECTION

