

<b>IH 90/94: USH 12/STH 16 TO IH 39 (COLUMBIA, SAUK AND JUNEAU COUNTIES)</b> <b>OFF-PEAK DAY CLOSURE</b> <b>DIVERSION ROUTE: STH 33 - USH 12</b>	<b>OCTOBER</b>
	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	161	0.0	67	0.0	OFF	161	0	67	0.00	0	66.1	66.1	66.1	43.8	43.8
1-2 AM	134	0.0	55	0.0	OFF	134	0	55	0.00	0	66.1	66.1	66.1	43.9	43.9
2-3 AM	112	0.0	46	0.0	OFF	112	0	46	0.00	0	66.2	66.2	66.2	44.1	44.1
3-4 AM	116	0.0	48	0.0	OFF	116	0	48	0.00	0	66.2	66.2	66.2	44.0	44.0
4-5 AM	111	0.0	46	0.0	OFF	111	0	46	0.00	0	66.2	66.2	66.2	44.1	44.1
5-6 AM	140	0.0	58	0.0	OFF	140	0	58	0.00	0	66.1	66.1	66.1	43.9	43.9
6-7 AM	202	0.0	83	0.0	OFF	202	0	83	0.00	0	66.0	66.0	66.0	43.5	43.5
7-8 AM	342	0.0	141	0.0	OFF	342	0	141	0.00	0	65.8	65.8	65.8	42.7	42.7
8-9 AM	570	0.0	234	0.0	OFF	570	0	234	0.00	0	65.3	65.3	65.3	41.4	41.4
9-10 AM	946	0.0	390	0.0	1500	946	0	390	0.51	0	64.6	62.1	41.9	39.2	39.2
10-11 AM	1332	0.0	549	0.0	1499	1332	0	549	0.81	0	63.9	60.1	34.8	36.9	36.9
11A-NOON	1671	0.0	688	0.0	1499	1671	0	688	3.35	67	63.3	50.2	30.8	34.9	34.9
NOON-1PM	1894	0.0	780	0.0	1500	1894	0	780	13.45	353	62.8	30.9	30.8	33.6	33.6
1-2 PM	2128	0.0	876	0.0	1499	1891	237	1113	29.94	793	62.4	18.9	30.8	32.2	28.9
2-3 PM	2179	0.0	897	0.0	1499	1622	558	1455+	38.65	1022	62.3	15.8	30.8	31.9	24.0
3-4 PM	2212	0.0	910	0.0	1499	1559	652	1562+	42.18	1117	62.3	14.8	30.8	31.7	22.5
4-5 PM	2041	0.0	840	0.0	1499	1363	678	1518+	40.73	1077	62.6	15.2	30.8	32.7	23.1
5-6 PM	1796	0.0	740	0.0	1499	1266	530	1270+	33.69	887	63.0	17.5	30.8	34.2	26.6
6-7 PM	1457	0.0	600	0.0	1499	1254	203	803	24.43	636	63.7	21.9	30.8	36.1	33.3
7-8 PM	1101	0.0	454	0.0	OFF	1101	0	454	0.89	46	64.3	60.1	60.1	38.3	38.3
8-9 PM	849	0.0	350	0.0	OFF	849	0	350	0.00	0	64.8	64.8	64.8	39.7	39.7
9-10 PM	548	0.0	225	0.0	OFF	548	0	225	0.00	0	65.4	65.4	65.4	41.5	41.5
10-11 PM	389	0.0	160	0.0	OFF	389	0	160	0.00	0	65.6	65.6	65.6	42.4	42.4
11PM-MID	286	0.0	118	0.0	OFF	286	0	118	0.00	0	65.8	65.8	65.8	43.0	43.0

"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	0.0492
MAIN ROUTE WITH WORKS	0.0420
DIVERSION	0.0932

PIA: Personal Injury Accidents

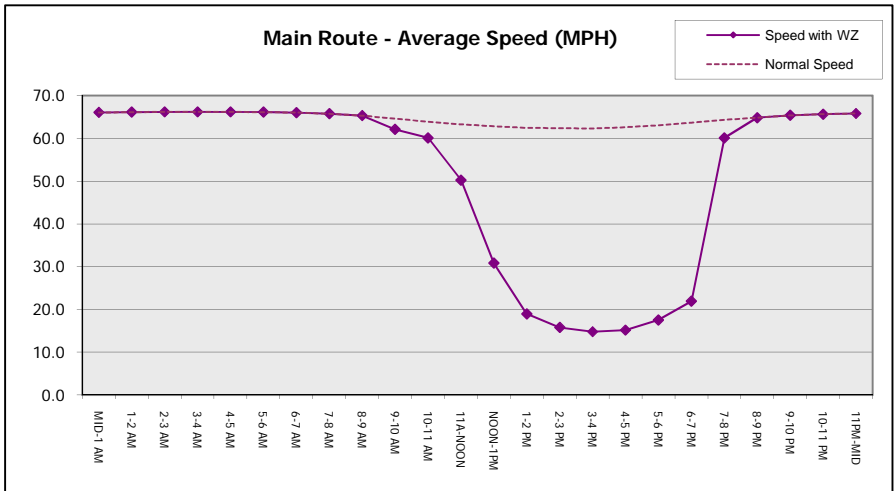
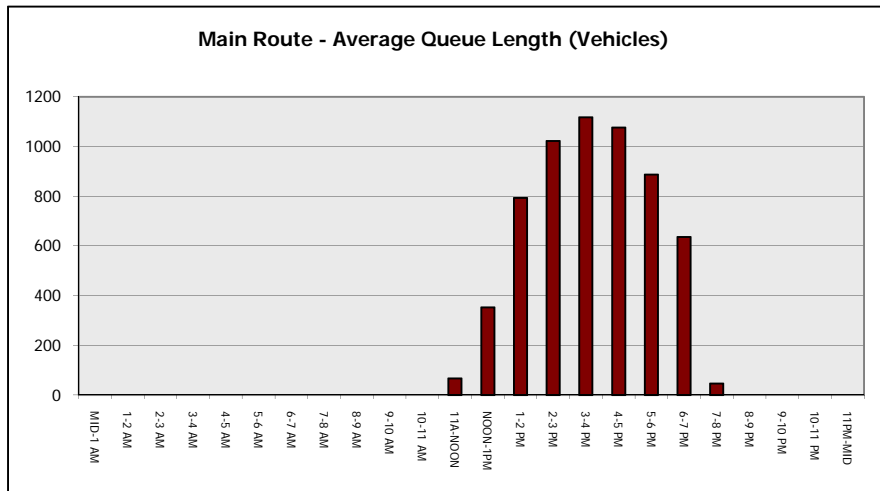
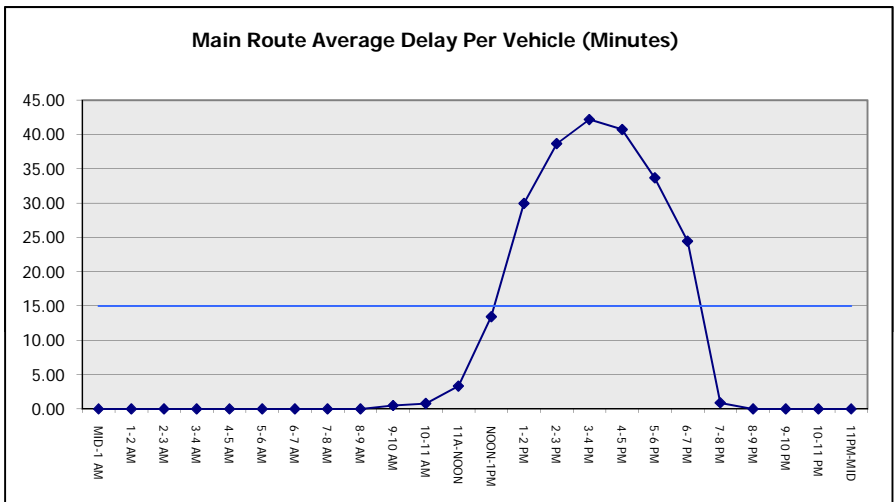
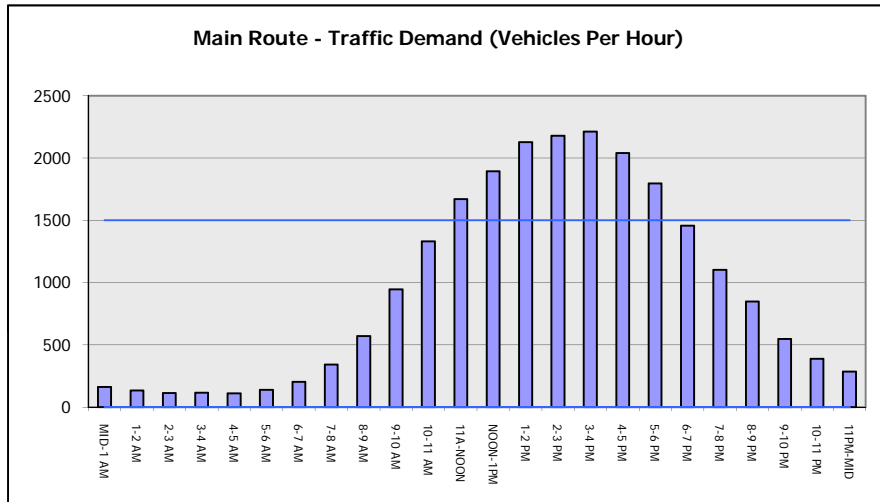
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$147,936
CONGESTED HOURS PER DAY*	6

\*Delays Exceeding 15 Minutes

**IH 90/94: USH 12/STH 16 TO IH 39 (COLUMBIA, SAUK AND JUNEAU COUNTIES)**  
**OFF-PEAK DAY CLOSURE**  
**DIVERSION ROUTE: STH 33 - USH 12**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY WESTBOUND DIRECTION**



<b>IH 90/94: USH 12/STH 16 TO IH 39 (COLUMBIA, SAUK AND JUNEAU COUNTIES)</b> <b>OFF-PEAK DAY CLOSURE</b> <b>DIVERSION ROUTE: STH 33 - USH 12</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
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	163	0.0	67	0.0	OFF	163	0	67	0.00	0	66.1	66.1	66.1	43.8	43.8
1-2 AM	116	0.0	48	0.0	OFF	116	0	48	0.00	0	66.2	66.2	66.2	44.0	44.0
2-3 AM	91	0.0	38	0.0	OFF	91	0	38	0.00	0	66.2	66.2	66.2	44.2	44.2
3-4 AM	81	0.0	33	0.0	OFF	81	0	33	0.00	0	66.3	66.3	66.3	44.2	44.2
4-5 AM	100	0.0	42	0.0	OFF	100	0	42	0.00	0	66.2	66.2	66.2	44.1	44.1
5-6 AM	123	0.0	51	0.0	OFF	123	0	51	0.00	0	66.1	66.1	66.1	44.0	44.0
6-7 AM	194	0.0	80	0.0	OFF	194	0	80	0.00	0	66.0	66.0	66.0	43.6	43.6
7-8 AM	308	0.0	127	0.0	OFF	308	0	127	0.00	0	65.8	65.8	65.8	42.9	42.9
8-9 AM	606	0.0	250	0.0	OFF	606	0	250	0.00	0	65.3	65.3	65.3	41.2	41.2
9-10 AM	957	0.0	394	0.0	1499	957	0	394	0.51	0	64.6	62.1	41.9	39.1	39.1
10-11 AM	1472	0.0	606	0.0	1499	1472	0	606	1.29	10	63.7	57.8	32.4	36.1	36.1
11A-NOON	1838	0.0	757	0.0	1500	1838	0	757	7.51	191	63.0	39.9	30.8	33.9	33.9
NOON-1PM	2088	0.0	859	0.0	1500	1993	95	954	23.79	637	62.5	22.1	30.8	32.5	31.1
1-2 PM	2312	0.0	952	0.0	1500	1800	512	1464+	38.88	1032	62.1	15.6	30.8	31.2	23.8
2-3 PM	2365	0.0	974	0.0	1500	1594	771	1745+	46.53	1236	62.0	13.7	30.8	30.9	20.8
3-4 PM	2424	0.0	997	0.0	1500	1500	924	1921+	47.34	1260	61.7	13.5	30.8	30.5	20.5
4-5 PM	2258	0.0	930	0.0	1500	1455	803	1734+	47.02	1248	62.2	13.5	30.8	31.5	20.6
5-6 PM	2004	0.0	825	0.0	1500	1266	738	1563+	42.27	1120	62.7	14.8	30.8	33.0	22.4
6-7 PM	1532	0.0	631	0.0	1500	1094	438	1069	29.25	771	63.5	19.4	30.8	35.7	29.5
7-8 PM	1244	0.0	512	0.0	OFF	1244	0	512	1.14	61	64.1	58.8	58.8	37.4	37.4
8-9 PM	922	0.0	379	0.0	OFF	922	0	379	0.00	0	64.6	64.6	64.6	39.3	39.3
9-10 PM	626	0.0	258	0.0	OFF	626	0	258	0.00	0	65.2	65.2	65.2	41.0	41.0
10-11 PM	436	0.0	180	0.0	OFF	436	0	180	0.00	0	65.6	65.6	65.6	42.2	42.2
11PM-MID	258	0.0	107	0.0	OFF	258	0	107	0.00	0	65.9	65.9	65.9	43.2	43.2

"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	0.0531
MAIN ROUTE WITH WORKS	0.0428
DIVERSION	0.1097

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$201,230
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding 15 Minutes

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**OFF-PEAK DAY CLOSURE**  
**DIVERSION ROUTE: STH 33 - USH 12**

**OCTOBER**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY EASTBOUND DIRECTION**

