

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	AUGUST
	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	208	0.0	85	0.0	OFF	208	0	85	0.00	0	66.0	66.0	66.0	43.5	43.5
1-2 AM	151	0.0	62	0.0	OFF	151	0	62	0.00	0	66.1	66.1	66.1	43.8	43.8
2-3 AM	136	0.0	56	0.0	OFF	136	0	56	0.00	0	66.1	66.1	66.1	43.9	43.9
3-4 AM	130	0.0	54	0.0	OFF	130	0	54	0.00	0	66.1	66.1	66.1	44.0	44.0
4-5 AM	132	0.0	55	0.0	OFF	132	0	55	0.00	0	66.1	66.1	66.1	43.9	43.9
5-6 AM	157	0.0	65	0.0	OFF	157	0	65	0.00	0	66.1	66.1	66.1	43.8	43.8
6-7 AM	246	0.0	100	0.0	OFF	246	0	100	0.00	0	66.0	66.0	66.0	43.3	43.3
7-8 AM	420	0.0	172	0.0	OFF	420	0	172	0.00	0	65.6	65.6	65.6	42.2	42.2
8-9 AM	711	0.0	293	0.0	OFF	711	0	293	0.00	0	65.1	65.1	65.1	40.6	40.6
9-10 AM	1113	0.0	459	0.0	1499	1113	0	459	0.60	0	64.3	61.4	39.6	38.2	38.2
10-11 AM	1631	0.0	672	0.0	1499	1631	0	672	2.36	39	63.3	53.5	30.8	35.1	35.1
11A-NOON	1954	0.0	805	0.0	1500	1954	0	805	12.84	343	62.7	31.5	30.8	33.2	33.2
NOON-1PM	2125	0.0	875	0.0	1499	1872	252	1127	30.25	801	62.4	18.8	30.8	32.2	28.6
1-2 PM	2247	0.0	925	0.0	1499	1685	562	1487+	39.65	1050	62.2	15.5	30.8	31.5	23.5
2-3 PM	2427	0.0	999	0.0	1499	1613	814	1814+	46.28	1231	61.7	13.7	30.8	30.5	20.9
3-4 PM	2449	0.0	1009	0.0	1499	1500	949	1958+	47.28	1260	61.4	13.5	30.8	30.4	20.5
4-5 PM	2227	0.0	917	0.0	1499	1449	778	1695+	46.98	1247	62.2	13.6	30.8	31.7	20.7
5-6 PM	1969	0.0	811	0.0	1499	1254	716	1526+	41.04	1087	62.7	15.1	30.8	33.2	23.0
6-7 PM	1724	0.0	710	0.0	1499	1248	476	1186	31.72	834	63.2	18.3	30.8	34.6	27.8
7-8 PM	1360	0.0	560	0.0	OFF	1360	0	560	1.69	94	63.8	56.4	56.4	36.8	36.8
8-9 PM	1057	0.0	435	0.0	OFF	1057	0	435	0.00	0	64.4	64.4	64.4	38.5	38.5
9-10 PM	794	0.0	327	0.0	OFF	794	0	327	0.00	0	64.9	64.9	64.9	40.1	40.1
10-11 PM	564	0.0	232	0.0	OFF	564	0	232	0.00	0	65.3	65.3	65.3	41.4	41.4
11PM-MID	387	0.0	159	0.0	OFF	387	0	159	0.00	0	65.6	65.6	65.6	42.4	42.4

"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	0.0570
MAIN ROUTE WITH WORKS	0.0461
DIVERSION	0.1174

PIA: Personal Injury Accidents

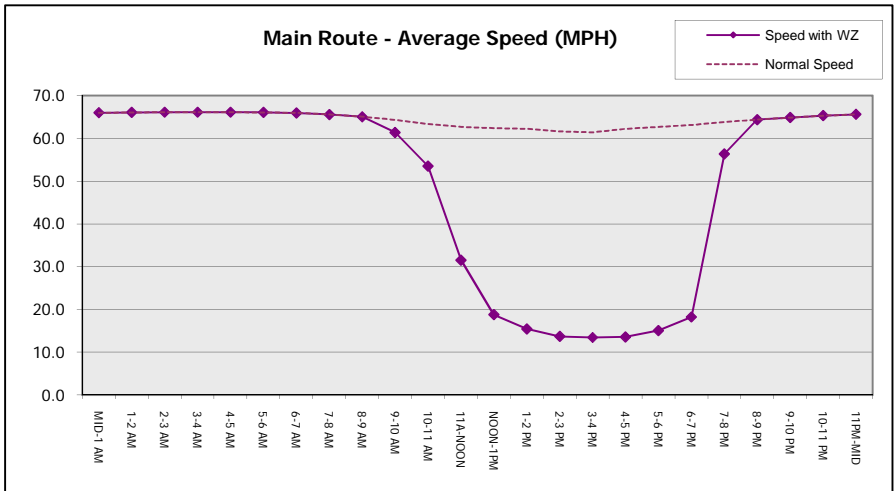
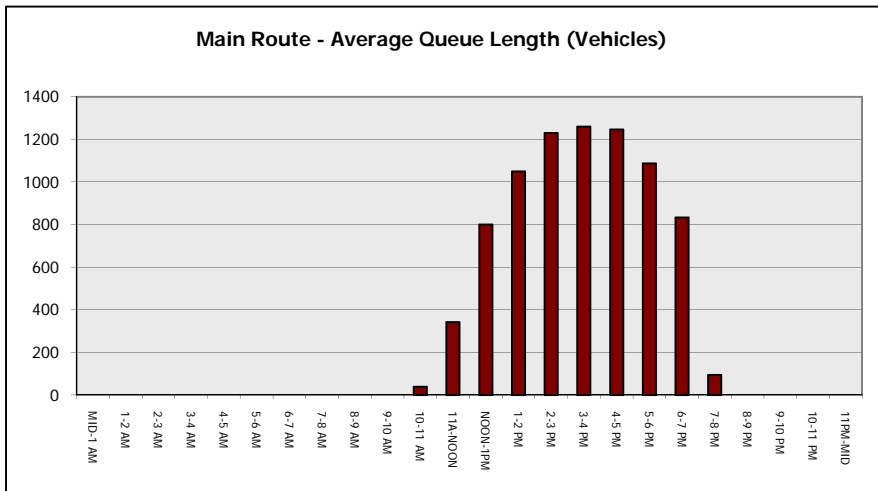
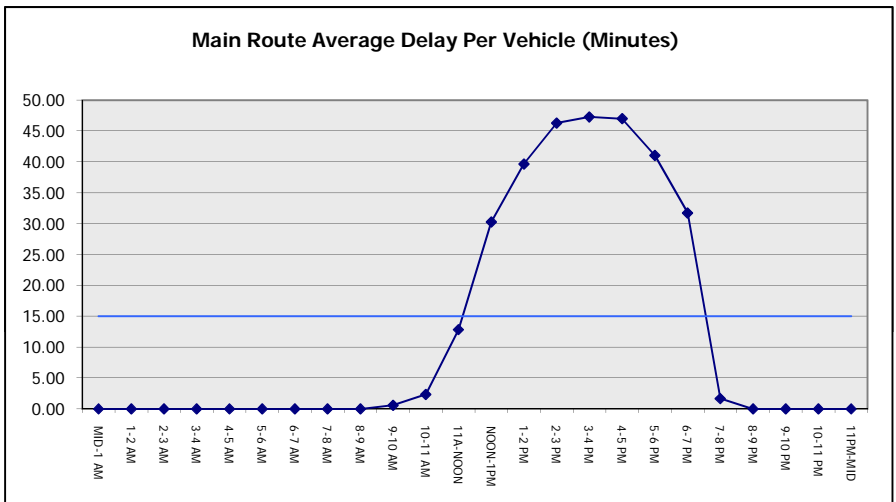
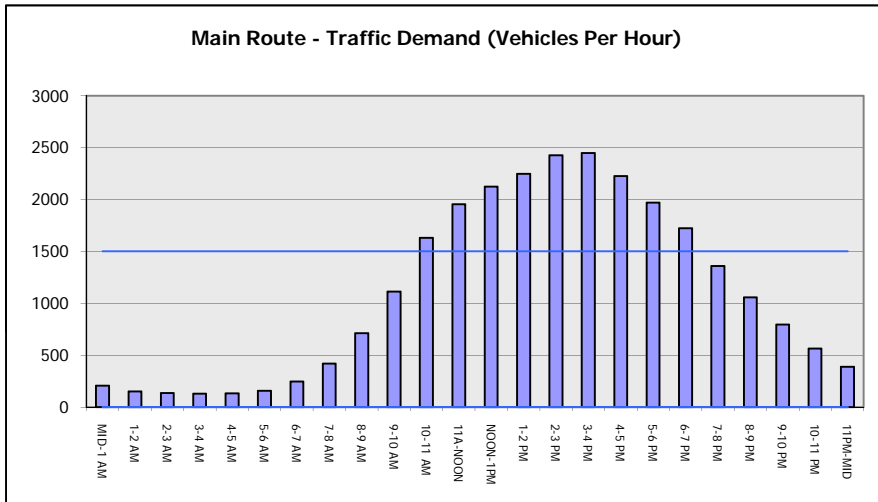
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$214,821
CONGESTED HOURS PER DAY*	7

*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

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



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	AUGUST Analyzed for 2009 Construction Season
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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			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	227	0.0	93	0.0	OFF	227	0	93	0.00	0	66.0	66.0	66.0	43.4	43.4
1-2 AM	161	0.0	66	0.0	OFF	161	0	66	0.00	0	66.1	66.1	66.1	43.8	43.8
2-3 AM	130	0.0	54	0.0	OFF	130	0	54	0.00	0	66.1	66.1	66.1	44.0	44.0
3-4 AM	111	0.0	46	0.0	OFF	111	0	46	0.00	0	66.2	66.2	66.2	44.1	44.1
4-5 AM	103	0.0	43	0.0	OFF	103	0	43	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	210	0.0	86	0.0	OFF	210	0	86	0.00	0	66.0	66.0	66.0	43.5	43.5
7-8 AM	396	0.0	163	0.0	OFF	396	0	163	0.00	0	65.6	65.6	65.6	42.4	42.4
8-9 AM	732	0.0	301	0.0	OFF	732	0	301	0.00	0	65.0	65.0	65.0	40.4	40.4
9-10 AM	1174	0.0	483	0.0	1499	1174	0	483	0.64	0	64.2	61.1	38.6	37.8	37.8
10-11 AM	1676	0.0	690	0.0	1499	1676	0	690	3.01	59	63.3	51.3	30.8	34.9	34.9
11A-NOON	2091	0.0	860	0.0	1500	2082	9	870	16.43	451	62.5	27.6	30.8	32.5	32.3
NOON-1PM	2301	0.0	948	0.0	1500	1883	419	1366+	36.02	958	62.1	16.6	30.8	31.2	25.3
1-2 PM	2603	0.0	1071	0.0	1500	1533	1070	2142+	46.65	1252	59.8	13.5	30.8	29.4	20.6
2-3 PM	2715	0.0	1118	0.0	1500	1502	1213	2331+	46.67	1260	58.7	13.5	30.8	28.8	20.5
3-4 PM	2714	0.0	1117	0.0	1500	1502	1212	2329+	46.67	1260	58.7	13.5	30.8	28.8	20.5
4-5 PM	2462	0.0	1014	0.0	1500	1502	960	1974+	47.25	1260	61.3	13.5	30.8	30.2	20.5
5-6 PM	2168	0.0	893	0.0	1500	1441	727	1620+	44.30	1174	62.3	14.2	30.8	32.0	21.6
6-7 PM	1839	0.0	758	0.0	1500	1202	637	1395+	37.01	979	63.0	16.3	30.8	33.9	24.8
7-8 PM	1469	0.0	605	0.0	OFF	1469	0	605	2.33	133	63.7	53.8	53.8	36.1	36.1
8-9 PM	1119	0.0	461	0.0	OFF	1119	0	461	0.00	0	64.3	64.3	64.3	38.1	38.1
9-10 PM	877	0.0	361	0.0	OFF	877	0	361	0.00	0	64.8	64.8	64.8	39.6	39.6
10-11 PM	609	0.0	251	0.0	OFF	609	0	251	0.00	0	65.3	65.3	65.3	41.2	41.2
11PM-MID	378	0.0	156	0.0	OFF	378	0	156	0.00	0	65.7	65.7	65.7	42.5	42.5

"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	0.0615
MAIN ROUTE WITH WORKS	0.0469
DIVERSION	0.1369

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$256,958
CONGESTED HOURS PER DAY*	8

*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

AUGUST
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

