

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
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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	324	0.0	134	0.0	OFF	324	0	134	0.00	0	65.8	65.8	65.8	42.8	42.8
1-2 AM	311	0.0	128	0.0	OFF	311	0	128	0.00	0	65.8	65.8	65.8	42.9	42.9
2-3 AM	278	0.0	115	0.0	OFF	278	0	115	0.00	0	65.9	65.9	65.9	43.1	43.1
3-4 AM	286	0.0	118	0.0	OFF	286	0	118	0.00	0	65.8	65.8	65.8	43.0	43.0
4-5 AM	316	0.0	130	0.0	OFF	316	0	130	0.00	0	65.8	65.8	65.8	42.8	42.8
5-6 AM	409	0.0	168	0.0	OFF	409	0	168	0.00	0	65.6	65.6	65.6	42.3	42.3
6-7 AM	586	0.0	241	0.0	OFF	586	0	241	0.00	0	65.3	65.3	65.3	41.3	41.3
7-8 AM	822	0.0	338	0.0	OFF	822	0	338	0.00	0	64.8	64.8	64.8	39.9	39.9
8-9 AM	1012	0.0	416	0.0	OFF	1012	0	416	0.00	0	64.5	64.5	64.5	38.8	38.8
9-10 AM	1217	0.0	501	0.0	1500	1217	0	501	0.66	0	64.1	61.0	37.9	37.6	37.6
10-11 AM	1453	0.0	598	0.0	1499	1453	0	598	0.96	0	63.7	59.2	31.8	36.2	36.2
11A-NOON	1555	0.0	640	0.0	1499	1555	0	640	1.77	20	63.5	55.8	30.8	35.6	35.6
NOON-1PM	1674	0.0	689	0.0	1500	1674	0	689	5.67	130	63.3	44.0	30.8	34.9	34.9
1-2 PM	1936	0.0	797	0.0	1500	1936	0	797	16.45	437	62.8	27.7	30.8	33.3	33.3
2-3 PM	2004	0.0	825	0.0	1499	1707	296	1121	30.17	793	62.7	18.9	30.8	33.0	28.8
3-4 PM	1920	0.0	790	0.0	1499	1476	444	1234+	32.76	860	62.8	17.8	30.8	33.5	27.1
4-5 PM	1955	0.0	805	0.0	OFF	1955	0	805	3.76	176	62.7	48.7	48.7	33.2	33.2
5-6 PM	1896	0.0	780	0.0	OFF	1896	0	780	0.00	0	62.8	62.8	62.8	33.6	33.6
6-7 PM	1786	0.0	736	0.0	OFF	1786	0	736	0.00	0	63.0	63.0	63.0	34.2	34.2
7-8 PM	1423	0.0	586	0.0	OFF	1423	0	586	0.00	0	63.7	63.7	63.7	36.3	36.3
8-9 PM	1135	0.0	468	0.0	OFF	1135	0	468	0.00	0	64.3	64.3	64.3	38.1	38.1
9-10 PM	822	0.0	338	0.0	OFF	822	0	338	0.00	0	64.8	64.8	64.8	39.9	39.9
10-11 PM	558	0.0	229	0.0	OFF	558	0	229	0.00	0	65.3	65.3	65.3	41.4	41.4
11PM-MID	411	0.0	169	0.0	OFF	411	0	169	0.00	0	65.6	65.6	65.6	42.3	42.3

"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	0.0565
MAIN ROUTE WITH WORKS	0.0541
DIVERSION	0.0876

PIA: Personal Injury Accidents

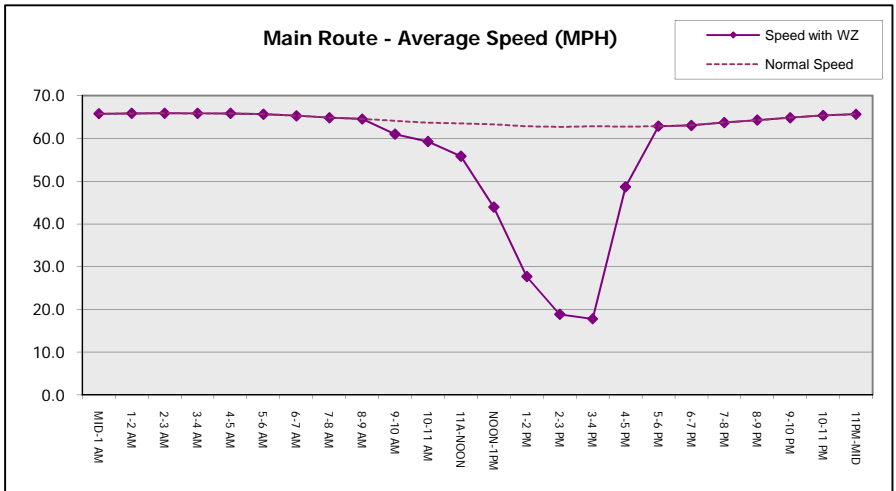
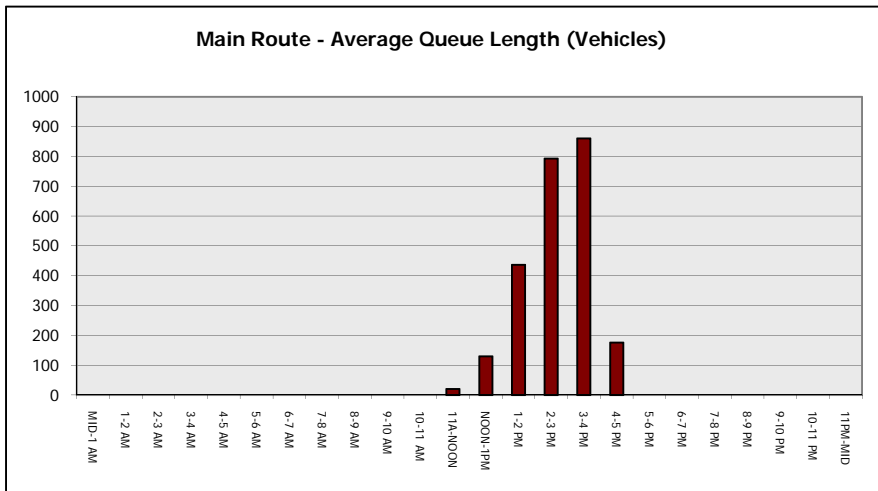
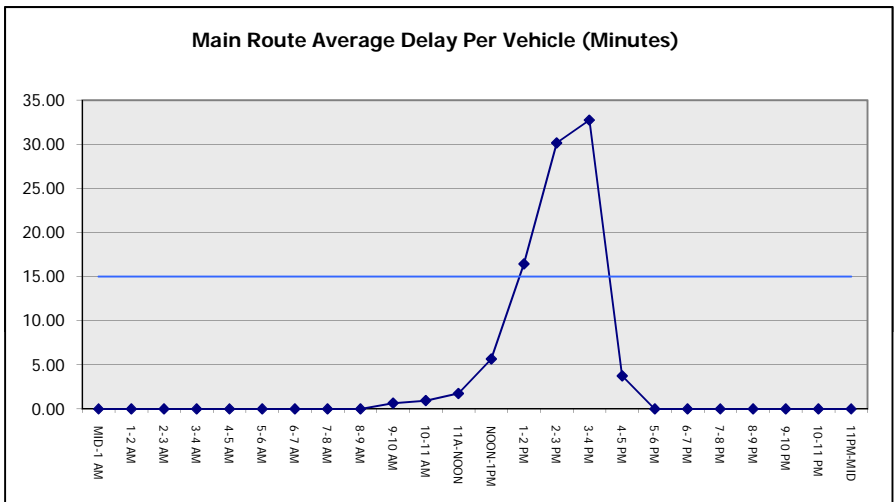
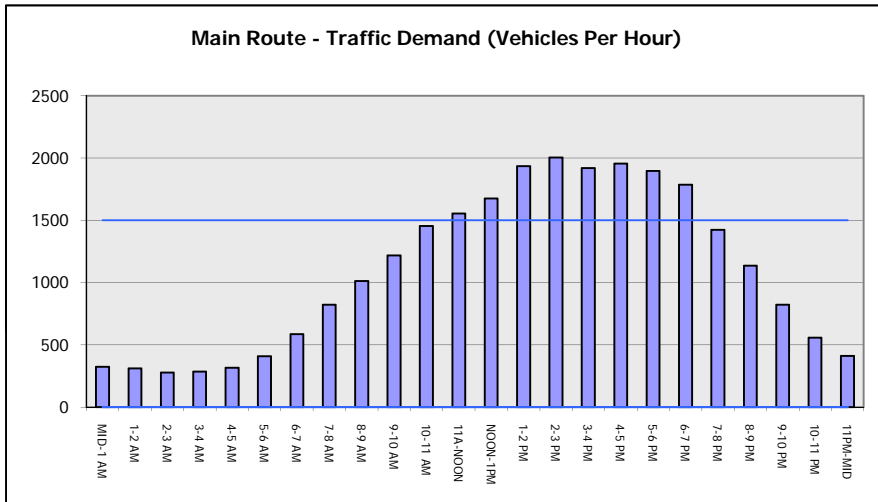
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$34,650
CONGESTED HOURS PER DAY*	3

*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
FRIDAY 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	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		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	288	0.0	119	0.0	OFF	288	0	119	0.00	0	65.8	65.8	65.8	43.0	43.0
1-2 AM	253	0.0	104	0.0	OFF	253	0	104	0.00	0	65.9	65.9	65.9	43.2	43.2
2-3 AM	238	0.0	98	0.0	OFF	238	0	98	0.00	0	66.0	66.0	66.0	43.3	43.3
3-4 AM	204	0.0	84	0.0	OFF	204	0	84	0.00	0	66.0	66.0	66.0	43.5	43.5
4-5 AM	217	0.0	89	0.0	OFF	217	0	89	0.00	0	66.0	66.0	66.0	43.5	43.5
5-6 AM	268	0.0	111	0.0	OFF	268	0	111	0.00	0	65.9	65.9	65.9	43.2	43.2
6-7 AM	395	0.0	162	0.0	OFF	395	0	162	0.00	0	65.6	65.6	65.6	42.4	42.4
7-8 AM	613	0.0	253	0.0	OFF	613	0	253	0.00	0	65.3	65.3	65.3	41.1	41.1
8-9 AM	755	0.0	310	0.0	OFF	755	0	310	0.00	0	65.0	65.0	65.0	40.3	40.3
9-10 AM	992	0.0	409	0.0	1500	992	0	409	0.52	0	64.5	62.0	41.7	38.9	38.9
10-11 AM	1245	0.0	512	0.0	1500	1245	0	512	0.69	0	64.1	60.7	37.1	37.4	37.4
11A-NOON	1446	0.0	596	0.0	1499	1446	0	596	0.95	0	63.7	59.3	32.0	36.2	36.2
NOON-1PM	1615	0.0	666	0.0	1499	1615	0	666	2.69	47	63.4	52.4	30.8	35.2	35.2
1-2 PM	1764	0.0	726	0.0	1500	1764	0	726	9.48	238	63.1	36.4	30.8	34.3	34.3
2-3 PM	1910	0.0	786	0.0	1500	1869	41	828	21.65	571	62.8	23.5	30.8	33.5	32.9
3-4 PM	2006	0.0	826	0.0	1498	1644	360	1185	31.64	830	62.7	18.3	30.7	33.0	27.8
4-5 PM	2039	0.0	840	0.0	OFF	2039	0	840	4.48	204	62.6	46.6	46.6	32.7	32.7
5-6 PM	1830	0.0	754	0.0	OFF	1830	0	754	0.00	0	63.0	63.0	63.0	34.0	34.0
6-7 PM	1611	0.0	664	0.0	OFF	1611	0	664	0.00	0	63.4	63.4	63.4	35.3	35.3
7-8 PM	1328	0.0	547	0.0	OFF	1328	0	547	0.00	0	63.9	63.9	63.9	36.9	36.9
8-9 PM	1067	0.0	439	0.0	OFF	1067	0	439	0.00	0	64.4	64.4	64.4	38.4	38.4
9-10 PM	795	0.0	328	0.0	OFF	795	0	328	0.00	0	64.9	64.9	64.9	40.1	40.1
10-11 PM	552	0.0	227	0.0	OFF	552	0	227	0.00	0	65.3	65.3	65.3	41.5	41.5
11PM-MID	357	0.0	147	0.0	OFF	357	0	147	0.00	0	65.7	65.7	65.7	42.6	42.6

"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	0.0515
MAIN ROUTE WITH WORKS	0.0499
DIVERSION	0.0778

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$26,970
CONGESTED HOURS PER DAY*	2

*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
FRIDAY EASTBOUND DIRECTION

