

IH 90: USH 14/61 TO USH 53 CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: USH 53 TO USH 14/61	OCTOBER
	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	171	0.0	147	7.0	1500	171	0	147	0.44	0	66.1	58.1	44.8	17.6	17.6
1-2 AM	108	0.0	92	7.0	1500	108	0	92	0.43	0	66.2	58.2	45.1	19.4	19.4
2-3 AM	94	0.0	80	7.0	1500	94	0	80	0.43	0	66.2	58.2	45.1	19.7	19.7
3-4 AM	71	0.0	61	7.0	1500	71	0	61	0.43	0	66.3	58.3	45.2	20.4	20.4
4-5 AM	73	0.0	63	7.0	1500	73	0	63	0.43	0	66.3	58.3	45.2	20.3	20.3
5-6 AM	94	0.0	80	7.0	1500	94	0	80	0.43	0	66.2	58.2	45.1	19.7	19.7
6-7 AM	119	0.0	102	7.0	1500	119	0	102	0.43	0	66.1	58.2	45.0	19.0	19.0
7-8 AM	182	0.0	156	7.0	1500	182	0	156	0.44	0	66.1	58.0	44.8	17.3	17.3
8-9 AM	358	0.0	307	7.0	1500	358	0	307	0.46	0	65.7	57.5	44.0	12.4	12.4
9-10 AM	603	0.0	517	7.0	1500	603	0	517	0.48	0	65.3	56.8	43.1	8.4	8.4
10-11 AM	889	0.0	763	7.0	1500	889	0	763+	0.51	0	64.7	56.0	42.0	6.5	6.5
11A-NOON	1160	0.0	995	7.0	1500	1160	0	995+	0.58	0	64.2	54.5	39.8	5.6	5.6
NOON-1PM	1289	0.0	1106	7.0	1500	1289	0	1106+	0.75	0	64.0	52.0	35.8	5.6	5.6
1-2 PM	1397	0.0	1199	7.0	1499	1397	0	1199+	0.89	0	63.8	50.2	33.0	5.6	5.6
2-3 PM	1575	0.0	1351	7.0	1499	1575	0	1351+	2.06	30	63.5	39.1	30.8	5.6	5.6
3-4 PM	1619	0.0	1390	7.0	1500	1619	0	1390+	5.74	131	63.3	23.2	30.8	5.6	5.6
4-5 PM	1669	0.0	1432	7.0	1500	1669	0	1432+	11.15	279	63.3	14.5	30.8	5.6	5.6
5-6 PM	1598	0.0	1372	7.0	1499	1598	0	1372+	16.63	422	63.4	10.7	30.8	5.6	5.7
6-7 PM	1336	0.0	1147	7.0	1499	1336	0	1147+	15.52	394	63.9	11.3	30.8	5.6	5.6
7-8 PM	1102	0.0	946	7.0	1499	1102	0	946+	3.58	125	64.3	30.7	36.7	5.6	5.6
8-9 PM	826	0.0	708	7.0	1500	826	0	708	0.50	0	64.8	56.1	42.3	6.9	6.9
9-10 PM	592	0.0	508	7.0	1500	592	0	508	0.48	0	65.3	56.8	43.2	8.4	8.4
10-11 PM	343	0.0	294	7.0	1500	343	0	294	0.46	0	65.8	57.5	44.1	12.8	12.8
11PM-MID	222	0.0	191	7.0	1500	222	0	191	0.44	0	66.0	57.9	44.6	16.1	16.1

+ 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	0.0097
MAIN ROUTE WITH WORKS	0.0086
DIVERSION	0.1660

PIA: Personal Injury Accidents

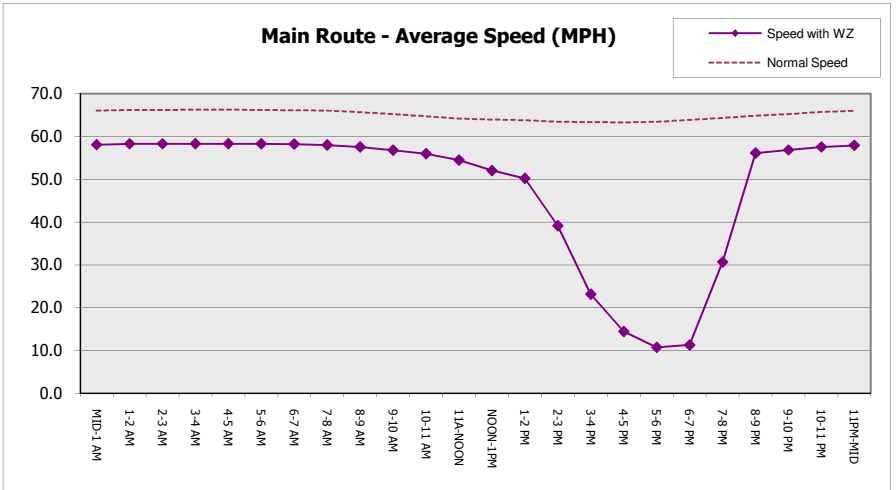
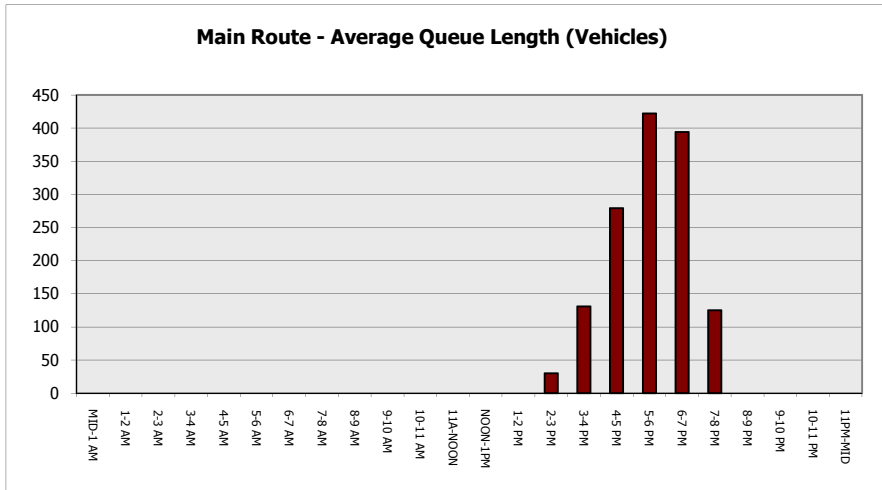
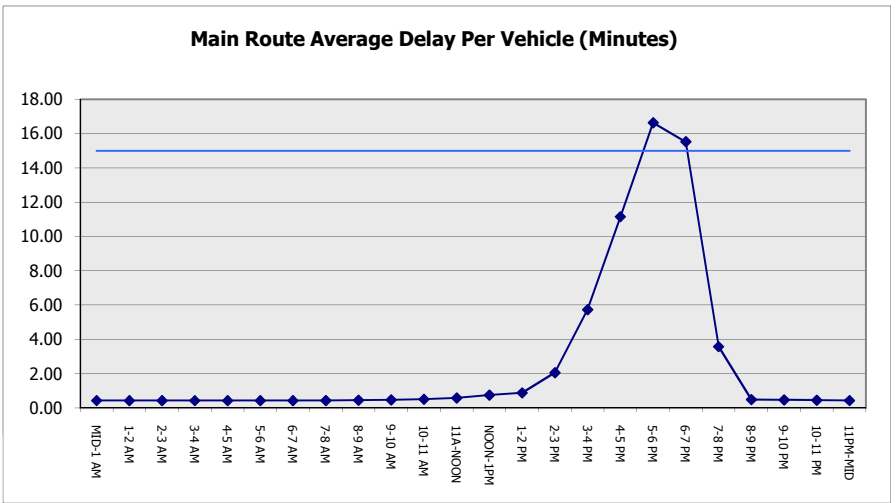
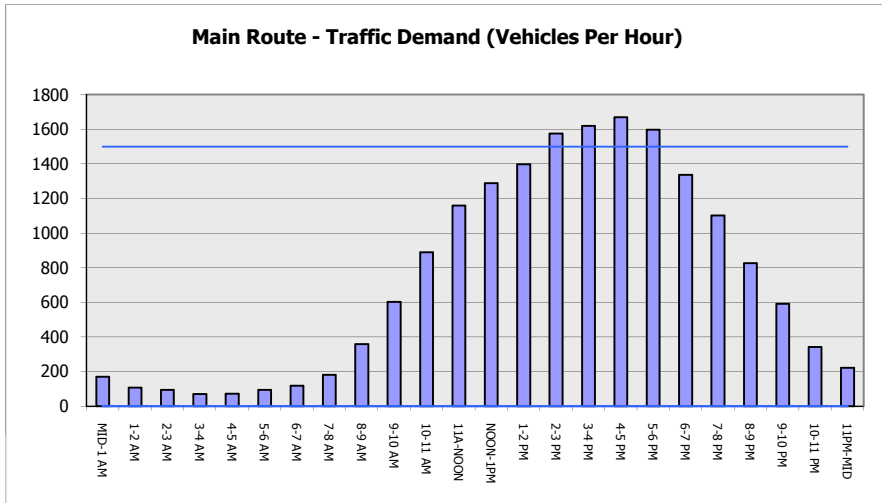
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$24,799
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

**IH 90: USH 14/61 TO USH 53
CONTINUOUS (24 HOUR) CLOSURE
DIVERSION ROUTE: USH 53 TO USH 14/61**

OCTOBER
Analyzed for 2009
Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY WESTBOUND DIRECTION



IH 90: USH 14/61 TO USH 53 CONTINUOUS (24 HOUR) CLOSURE DIVERSION ROUTE: USH 53 TO USH 14/61	OCTOBER
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

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		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	122	0.0	104	7.0	1500	122	0	104	0.43	0	66.1	58.2	45.0	18.9	18.9
1-2 AM	74	0.0	64	7.0	1500	74	0	64	0.43	0	66.3	58.3	45.2	20.2	20.2
2-3 AM	76	0.0	65	7.0	1500	76	0	65	0.43	0	66.3	58.3	45.2	20.2	20.2
3-4 AM	135	0.0	116	7.0	1500	135	0	116	0.44	0	66.1	58.1	45.0	18.6	18.6
4-5 AM	114	0.0	97	7.0	1500	114	0	97	0.43	0	66.2	58.2	45.0	19.2	19.2
5-6 AM	132	0.0	113	7.0	1500	132	0	113	0.44	0	66.1	58.2	45.0	18.7	18.7
6-7 AM	188	0.0	160	7.0	1500	188	0	160	0.44	0	66.0	58.0	44.7	17.1	17.1
7-8 AM	328	0.0	281	7.0	1500	328	0	281	0.45	0	65.8	57.6	44.2	13.2	13.2
8-9 AM	451	0.0	388	7.0	1500	451	0	388	0.47	0	65.5	57.2	43.7	9.7	9.7
9-10 AM	797	0.0	684	7.0	1500	797	0	684	0.50	0	64.9	56.2	42.4	7.1	7.1
10-11 AM	1148	0.0	985	7.0	1500	1148	0	985+	0.57	0	64.3	54.7	40.2	5.6	5.6
11A-NOON	1341	0.0	1151	7.0	1500	1341	0	1151+	0.82	0	63.9	51.1	34.4	5.6	5.6
NOON-1PM	1465	0.0	1258	7.0	1499	1465	0	1258+	0.98	0	63.7	49.1	31.5	5.6	5.6
1-2 PM	1525	0.0	1310	7.0	1499	1525	0	1310+	1.25	6	63.5	46.1	30.8	5.6	5.6
2-3 PM	1686	0.0	1448	7.0	1500	1686	0	1448+	4.92	115	63.2	25.5	30.8	5.6	5.6
3-4 PM	1646	0.0	1413	7.0	1499	1646	0	1413+	11.52	287	63.3	14.2	30.8	5.6	5.6
4-5 PM	1614	0.0	1386	7.0	1500	1614	0	1386+	16.72	425	63.4	10.7	30.8	5.6	5.7
5-6 PM	1330	0.0	1141	7.0	1499	1330	0	1141+	15.96	406	63.9	11.1	30.8	5.6	5.7
6-7 PM	1003	0.0	861	7.0	1499	1003	0	861+	2.77	105	64.5	34.8	38.4	5.7	5.9
7-8 PM	765	0.0	656	7.0	1500	765	0	656	0.50	0	65.0	56.3	42.5	7.3	7.3
8-9 PM	571	0.0	490	7.0	1500	571	0	490	0.48	0	65.3	56.9	43.2	8.6	8.6
9-10 PM	350	0.0	301	7.0	1500	350	0	301	0.46	0	65.7	57.5	44.1	12.5	12.5
10-11 PM	237	0.0	204	7.0	1500	237	0	204	0.45	0	66.0	57.8	44.5	15.7	15.7
11PM-MID	178	0.0	152	7.0	1500	178	0	152	0.44	0	66.1	58.0	44.8	17.4	17.4

+ 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	0.0096
MAIN ROUTE WITH WORKS	0.0085
DIVERSION	0.1640

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$24,212
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

**IH 90: USH 14/61 TO USH 53
 CONTINUOUS (24 HOUR) CLOSURE
 DIVERSION ROUTE: USH 53 TO USH 14/61**

OCTOBER
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
SUNDAY EASTBOUND DIRECTION

