

**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**

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	246	0.0	211	7.0	1500	246	0	211	0.45	0	66.0	57.8	44.5	15.5	15.5
1-2 AM	177	0.0	151	7.0	1500	177	0	151	0.44	0	66.1	58.0	44.8	17.5	17.5
2-3 AM	178	0.0	153	7.0	1500	178	0	153	0.44	0	66.1	58.0	44.8	17.4	17.4
3-4 AM	176	0.0	151	7.0	1500	176	0	151	0.44	0	66.1	58.0	44.8	17.5	17.5
4-5 AM	224	0.0	193	7.0	1500	224	0	193	0.44	0	66.0	57.9	44.6	16.1	16.1
5-6 AM	341	0.0	293	7.0	1500	341	0	293	0.46	0	65.8	57.5	44.2	12.8	12.8
6-7 AM	489	0.0	420	7.0	1500	489	0	420	0.47	0	65.5	57.1	43.5	9.1	9.1
7-8 AM	737	0.0	632	7.0	1500	737	0	632	0.49	0	65.0	56.4	42.6	7.5	7.5
8-9 AM	911	0.0	782	7.0	1500	911	0	782+	0.51	0	64.7	55.9	42.0	6.3	6.3
9-10 AM	1009	0.0	865	7.0	1500	1009	0	865+	0.52	0	64.5	55.6	41.7	5.7	5.7
10-11 AM	1125	0.0	966	7.0	1500	1125	0	966+	0.54	0	64.3	55.1	41.0	5.6	5.6
11A-NOON	1218	0.0	1045	7.0	1500	1218	0	1045+	0.66	0	64.1	53.3	37.9	5.6	5.6
NOON-1PM	1239	0.0	1063	7.0	1500	1239	0	1063+	0.69	0	64.1	53.0	37.3	5.6	5.6
1-2 PM	1357	0.0	1165	7.0	1499	1357	0	1165+	0.84	0	63.8	50.9	34.1	5.6	5.6
2-3 PM	1639	0.0	1406	7.0	1499	1639	0	1406+	2.93	58	63.3	33.6	30.8	5.6	5.6
3-4 PM	1695	0.0	1456	7.0	1500	1695	0	1456+	9.39	234	63.2	16.5	30.8	5.6	5.6
4-5 PM	1710	0.0	1468	7.0	1500	1710	0	1468+	17.29	443	63.2	10.6	30.8	5.6	5.7
5-6 PM	1530	0.0	1313	7.0	1499	1530	0	1313+	22.11	569	63.5	9.3	30.8	5.6	5.8
6-7 PM	1377	0.0	1182	7.0	1499	1377	0	1182+	20.46	525	63.8	9.7	30.8	5.6	5.8
7-8 PM	1112	0.0	955	7.0	1499	1112	0	955+	9.71	273	64.3	16.2	33.4	5.6	5.6
8-9 PM	844	0.0	724	7.0	1500	844	0	724+	0.59	3	64.8	54.8	42.2	6.8	6.8
9-10 PM	662	0.0	568	7.0	1500	662	0	568	0.49	0	65.1	56.6	42.9	8.0	8.0
10-11 PM	549	0.0	471	7.0	1500	549	0	471	0.48	0	65.4	56.9	43.3	8.8	8.8
11PM-MID	305	0.0	263	7.0	1500	305	0	263	0.45	0	65.8	57.6	44.3	13.8	13.8

+ 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	0.0116
MAIN ROUTE WITH WORKS	0.0102
DIVERSION	0.1979

PIA: Personal Injury Accidents

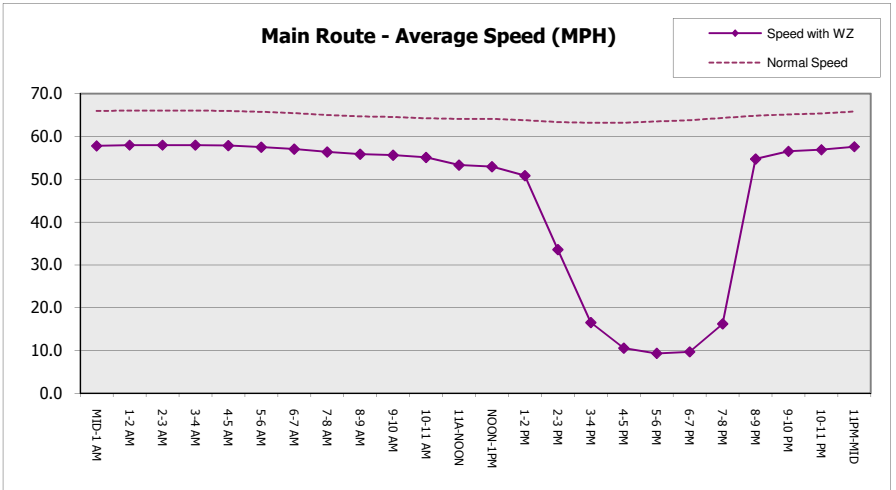
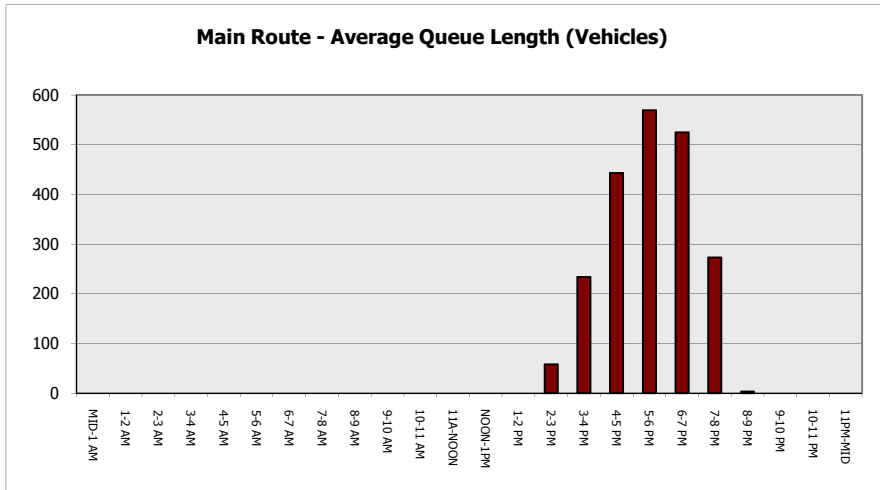
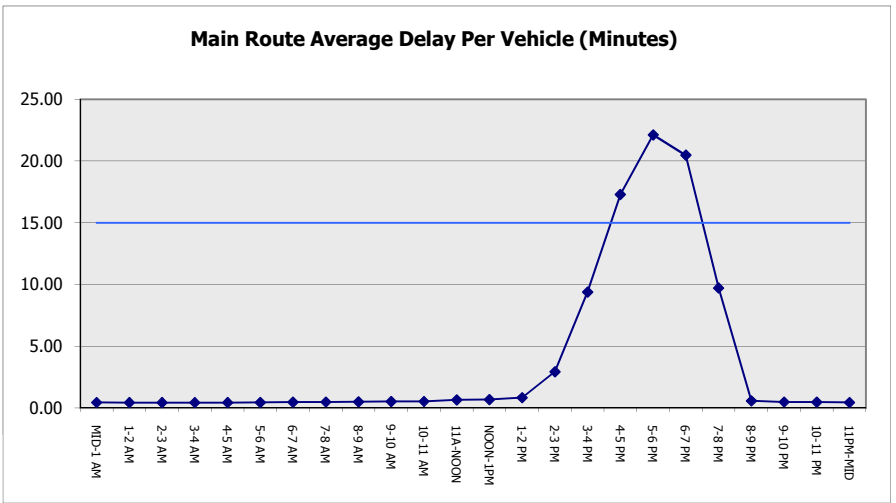
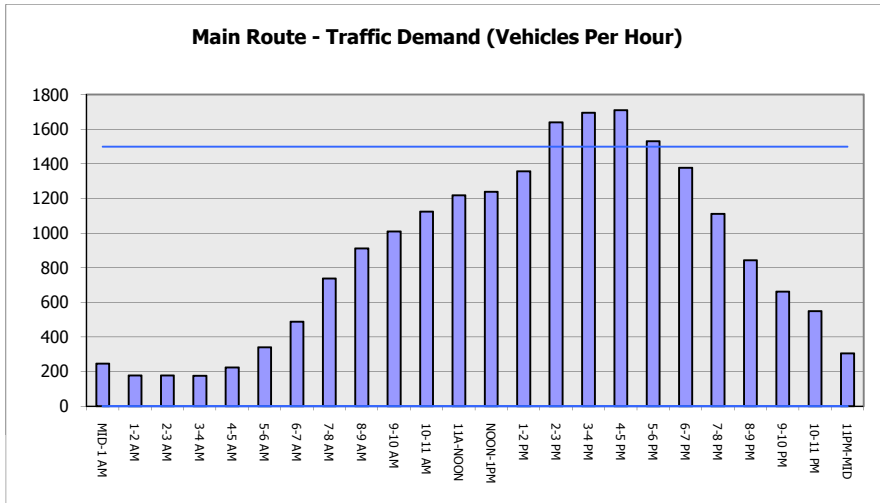
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$29,669
CONGESTED HOURS PER DAY*	3

\*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**  
**FRIDAY WESTBOUND DIRECTION**



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

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY EASTBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR								TOTAL DIVN FLOW	AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	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	183	0.0	156	7.0	1500	183	0	156	0.44	0	66.1	58.0	44.8	17.3	17.3	
1-2 AM	154	0.0	133	7.0	1500	154	0	133	0.44	0	66.1	58.1	44.9	18.0	18.0	
2-3 AM	175	0.0	149	7.0	1500	175	0	149	0.44	0	66.1	58.0	44.8	17.5	17.5	
3-4 AM	198	0.0	169	7.0	1500	198	0	169	0.44	0	66.0	57.9	44.7	16.8	16.8	
4-5 AM	245	0.0	210	7.0	1500	245	0	210	0.45	0	66.0	57.8	44.5	15.5	15.5	
5-6 AM	327	0.0	280	7.0	1500	327	0	280	0.45	0	65.8	57.6	44.2	13.2	13.2	
6-7 AM	628	0.0	540	7.0	1500	628	0	540	0.48	0	65.2	56.7	43.0	8.3	8.3	
7-8 AM	793	0.0	682	7.0	1500	793	0	682	0.50	0	64.9	56.2	42.4	7.1	7.1	
8-9 AM	854	0.0	732	7.0	1500	854	0	732+	0.51	0	64.8	56.1	42.2	6.7	6.7	
9-10 AM	967	0.0	830	7.0	1500	967	0	830+	0.52	0	64.6	55.7	41.8	6.0	6.0	
10-11 AM	1146	0.0	984	7.0	1500	1146	0	984+	0.57	0	64.3	54.7	40.2	5.6	5.6	
11A-NOON	1259	0.0	1081	7.0	1500	1259	0	1081+	0.71	0	64.0	52.6	36.6	5.6	5.6	
NOON-1PM	1352	0.0	1161	7.0	1499	1352	0	1161+	0.83	0	63.8	50.9	34.2	5.6	5.6	
1-2 PM	1599	0.0	1373	7.0	1499	1599	0	1373+	2.24	36	63.4	37.8	30.8	5.6	5.6	
2-3 PM	1755	0.0	1507	7.0	1500	1755	0	1507+	8.65	220	63.1	17.5	30.8	5.6	5.6	
3-4 PM	1797	0.0	1542	7.0	1500	1797	0	1542+	19.34	501	63.0	10.0	30.8	5.6	5.8	
4-5 PM	1782	0.0	1529	7.0	1500	1782	0	1529+	30.47	798	63.1	8.1	30.8	5.6	6.2	
5-6 PM	1601	0.0	1374	7.0	1499	1601	0	1374+	37.99	997	63.4	7.5	30.8	5.6	6.5	
6-7 PM	1318	0.0	1131	7.0	1499	1318	0	1131+	36.75	963	63.9	7.6	30.8	5.6	6.5	
7-8 PM	932	0.0	800	7.0	1499	932	0	800+	22.00	589	64.6	9.6	31.9	6.2	6.5	
8-9 PM	638	0.0	548	7.0	1500	638	0	548	1.36	49	65.2	45.9	42.7	8.2	8.2	
9-10 PM	570	0.0	490	7.0	1500	570	0	490	0.48	0	65.3	56.9	43.2	8.6	8.6	
10-11 PM	398	0.0	341	7.0	1500	398	0	341	0.46	0	65.6	57.4	43.9	11.2	11.2	
11PM-MID	265	0.0	227	7.0	1500	265	0	227	0.45	0	65.9	57.8	44.4	15.0	15.0	

+ 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	0.0117
MAIN ROUTE WITH WORKS	0.0103
DIVERSION	0.1987

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$55,708
CONGESTED HOURS PER DAY*	5

\*Delays Exceeding 15 Minutes

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

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 Construction Season

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**FRIDAY EASTBOUND DIRECTION**

