

**USH 41/45: USH 41/45 TO CTH Q (WASHINGTON COUNTY)**  
**OFF-PEAK DAY 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**MAY**  
 Analyzed for 2009  
 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**  
**FRIDAY SOUTHBOUND 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	306	0.0	21	0.0	OFF	306	0	21	0.00	0	70.2	70.2	70.2	24.7	24.7
1-2 AM	213	0.0	14	0.0	OFF	213	0	14	0.00	0	70.2	70.2	70.2	24.7	24.7
2-3 AM	196	0.0	13	0.0	OFF	196	0	13	0.00	0	70.2	70.2	70.2	24.7	24.7
3-4 AM	255	0.0	17	0.0	OFF	255	0	17	0.00	0	70.2	70.2	70.2	24.7	24.7
4-5 AM	552	0.0	37	0.0	OFF	552	0	37	0.00	0	70.0	70.0	70.0	24.5	24.5
5-6 AM	1738	0.0	116	0.0	OFF	1738	0	116	0.00	0	68.6	68.6	68.6	24.0	24.0
6-7 AM	3496	0.0	235	0.0	OFF	3496	0	235	0.00	0	66.4	66.4	66.4	23.0	23.0
7-8 AM	4103	0.0	276	0.0	OFF	4103	0	276	0.00	0	62.8	62.8	62.8	22.7	22.7
8-9 AM	2653	0.0	178	0.0	OFF	2653	0	178	0.00	0	67.4	67.4	67.4	23.5	23.5
9-10 AM	2140	0.0	144	0.0	1499	1749	391	535	9.58	231	68.1	11.9	31.0	23.7	20.7
10-11 AM	2003	0.0	135	0.0	1500	1492	511	646	10.35	242	68.2	11.2	30.8	23.8	19.9
11A-NOON	2140	0.0	144	0.0	1500	1524	616	760	10.91	257	68.1	10.7	30.8	23.7	19.0
NOON-1PM	2234	0.0	150	0.0	1500	1513	721	871	11.52	273	67.9	10.2	30.8	23.7	18.1
1-2 PM	2261	0.0	152	0.0	1499	1509	751	904	11.70	278	67.9	10.1	30.8	23.7	17.9
2-3 PM	2580	0.0	173	0.0	1500	1572	1008	1181	13.57	328	67.5	8.9	30.8	23.5	15.9
3-4 PM	2897	0.0	194	0.0	1500	1581	1316	1510+	16.68	410	67.1	7.9	30.8	23.3	13.7
4-5 PM	2846	0.0	191	0.0	OFF	2846	0	191	0.32	30	67.2	58.1	58.1	23.3	23.3
5-6 PM	2652	0.0	178	0.0	OFF	2652	0	178	0.00	0	67.4	67.4	67.4	23.5	23.5
6-7 PM	2094	0.0	141	0.0	OFF	2094	0	141	0.00	0	68.1	68.1	68.1	23.8	23.8
7-8 PM	1545	0.0	104	0.0	OFF	1545	0	104	0.00	0	68.8	68.8	68.8	24.0	24.0
8-9 PM	1250	0.0	84	0.0	OFF	1250	0	84	0.00	0	69.2	69.2	69.2	24.2	24.2
9-10 PM	1185	0.0	79	0.0	OFF	1185	0	79	0.00	0	69.2	69.2	69.2	24.2	24.2
10-11 PM	948	0.0	64	0.0	OFF	948	0	64	0.00	0	69.6	69.6	69.6	24.3	24.3
11PM-MID	758	0.0	50	0.0	OFF	758	0	50	0.00	0	69.8	69.8	69.8	24.5	24.5

"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	0.0157
MAIN ROUTE WITH WORKS	0.0131
DIVERSION	0.0395

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$48,798
CONGESTED HOURS PER DAY*	1

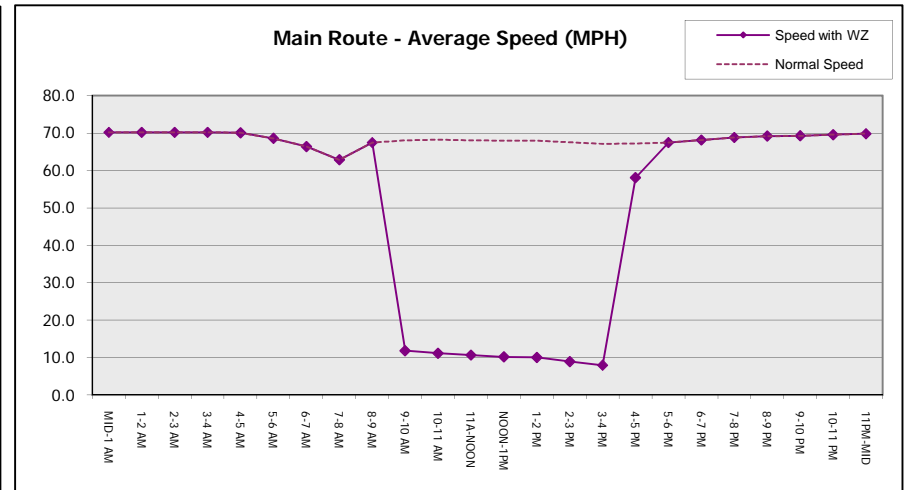
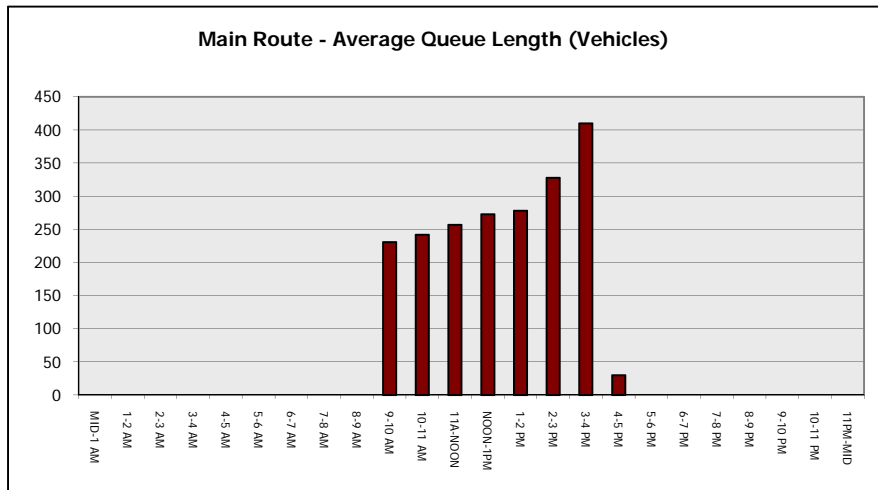
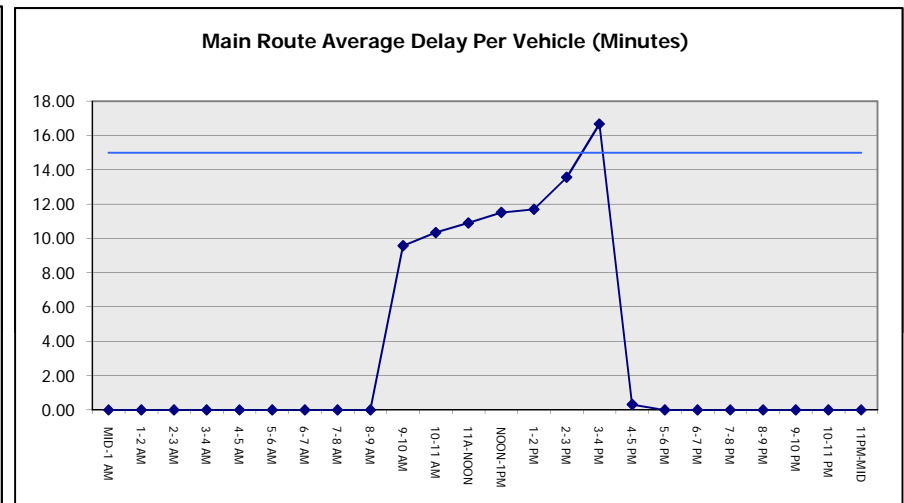
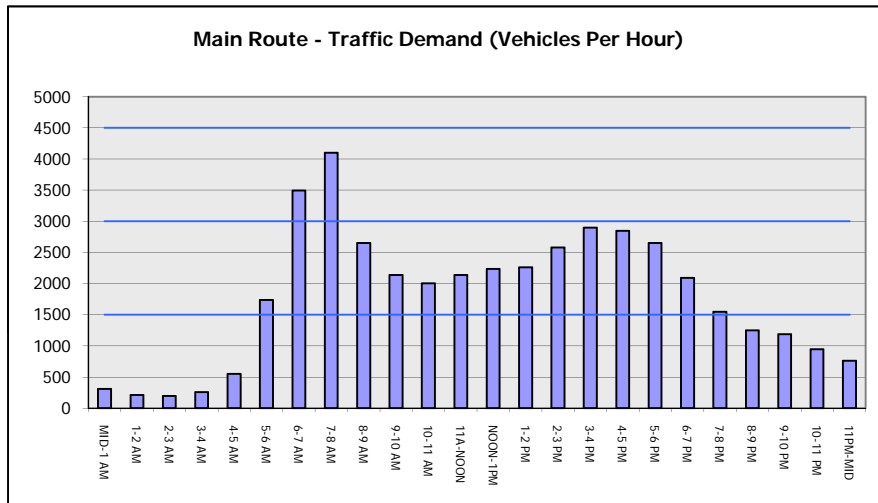
\*Delays Exceeding 15 Minutes

**USH 41/45: USH 41/45 TO CTH Q (WASHINGTON COUNTY)  
 OFF-PEAK DAY 2 LANE CLOSURE  
 DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**FRIDAY SOUTHBOUND DIRECTION**



<b>USH 41/45: USH 41/45 TO CTH Q (WASHINGTON COUNTY)</b> <b>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD</b>	<b>MAY</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
FRIDAY	NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							TOTAL			AVERAGE SPEEDS IN MPH				
	MAIN		DIVERSION		SITE CAPA CITY	FLOW MAIN ROUTE	FLOW DIVER -TING	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	387	0.0	26	0.0	OFF	387	0	26	0.00	0	70.2	70.2	70.2	24.7	24.7
1-2 AM	242	0.0	16	0.0	OFF	242	0	16	0.00	0	70.2	70.2	70.2	24.7	24.7
2-3 AM	210	0.0	14	0.0	OFF	210	0	14	0.00	0	70.2	70.2	70.2	24.7	24.7
3-4 AM	236	0.0	15	0.0	OFF	236	0	15	0.00	0	70.2	70.2	70.2	24.7	24.7
4-5 AM	445	0.0	30	0.0	OFF	445	0	30	0.00	0	70.2	70.2	70.2	24.6	24.6
5-6 AM	1132	0.0	76	0.0	OFF	1132	0	76	0.00	0	69.3	69.3	69.3	24.3	24.3
6-7 AM	2165	0.0	145	0.0	OFF	2165	0	145	0.00	0	68.1	68.1	68.1	23.7	23.7
7-8 AM	2122	0.0	142	0.0	OFF	2122	0	142	0.00	0	68.1	68.1	68.1	23.7	23.7
8-9 AM	1943	0.0	131	0.0	OFF	1943	0	131	0.00	0	68.3	68.3	68.3	23.8	23.8
9-10 AM	2021	0.0	136	0.0	1499	1747	274	409	7.64	185	68.2	14.3	30.8	23.8	21.7
10-11 AM	2131	0.0	143	0.0	1500	1520	611	754	10.88	256	68.1	10.7	30.8	23.7	19.1
11A-NOON	2421	0.0	163	0.0	1500	1553	868	1031	12.49	299	67.8	9.5	30.8	23.6	17.0
NOON-1PM	2629	0.0	177	0.0	1499	1544	1085	1262+	14.22	345	67.4	8.7	30.8	23.5	15.3
1-2 PM	2791	0.0	187	0.0	1499	1558	1233	1420+	15.70	384	67.3	8.2	30.8	23.4	14.3
2-3 PM	3455	0.0	232	0.0	1499	1519	1936	2168+	19.09	473	66.4	7.4	30.8	23.0	12.4
3-4 PM	4212	0.0	283	0.0	1500	1500	2712	2995+	19.03	475	62.1	7.3	30.8	22.7	12.4
4-5 PM	4740	0.0	318	0.0	OFF	4740	0	318	0.90	77	58.5	42.4	42.4	22.4	22.4
5-6 PM	4197	0.0	282	0.0	OFF	4197	0	282	0.00	0	62.2	62.2	62.2	22.7	22.7
6-7 PM	2754	0.0	185	0.0	OFF	2754	0	185	0.00	0	67.3	67.3	67.3	23.4	23.4
7-8 PM	1967	0.0	132	0.0	OFF	1967	0	132	0.00	0	68.3	68.3	68.3	23.8	23.8
8-9 PM	1535	0.0	103	0.0	OFF	1535	0	103	0.00	0	68.8	68.8	68.8	24.0	24.0
9-10 PM	1474	0.0	99	0.0	OFF	1474	0	99	0.00	0	68.9	68.9	68.9	24.1	24.1
10-11 PM	1355	0.0	91	0.0	OFF	1355	0	91	0.00	0	69.1	69.1	69.1	24.2	24.2
11PM-MID	874	0.0	59	0.0	OFF	874	0	59	0.00	0	69.7	69.7	69.7	24.4	24.4

"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	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	0.0174
MAIN ROUTE WITH WORKS	0.0134
DIVERSION	0.0573

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$72,936
CONGESTED HOURS PER DAY*	3

\*Delays Exceeding 15 Minutes

**USH 41/45: USH 41/45 TO CTH Q (WASHINGTON COUNTY)**  
**OFF-PEAK DAY 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**MAY**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**FRIDAY NORTHBOUND DIRECTION**

