

<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>AUGUST</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

MON-THUR                      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	273	0.0	19	0.0	OFF	273	0	19	0.00	0	70.2	70.2	70.2	24.7	24.7
1-2 AM	172	0.0	11	0.0	OFF	172	0	11	0.00	0	70.2	70.2	70.2	24.8	24.8
2-3 AM	180	0.0	12	0.0	OFF	180	0	12	0.00	0	70.2	70.2	70.2	24.7	24.7
3-4 AM	275	0.0	19	0.0	OFF	275	0	19	0.00	0	70.2	70.2	70.2	24.7	24.7
4-5 AM	608	0.0	41	0.0	OFF	608	0	41	0.00	0	70.0	70.0	70.0	24.5	24.5
5-6 AM	1911	0.0	129	0.0	OFF	1911	0	129	0.00	0	68.4	68.4	68.4	23.8	23.8
6-7 AM	3835	0.0	257	0.0	OFF	3835	0	257	0.00	0	64.6	64.6	64.6	22.9	22.9
7-8 AM	4368	0.0	293	0.0	OFF	4368	0	293	0.00	0	61.0	61.0	61.0	22.6	22.6
8-9 AM	2855	0.0	191	0.0	OFF	2855	0	191	0.00	0	67.2	67.2	67.2	23.3	23.3
9-10 AM	2237	0.0	150	0.0	1499	1763	474	624	10.25	250	67.9	11.3	31.0	23.7	20.1
10-11 AM	2128	0.0	143	0.0	1500	1494	634	777	11.00	259	68.1	10.6	30.8	23.7	18.9
11A-NOON	2154	0.0	145	0.0	1500	1508	646	791	11.08	261	68.1	10.5	30.8	23.7	18.8
NOON-1PM	2241	0.0	150	0.0	1500	1513	728	878	11.56	274	67.9	10.1	30.8	23.7	18.1
1-2 PM	2227	0.0	149	0.0	1499	1502	724	873	11.53	273	67.9	10.2	30.8	23.7	18.1
2-3 PM	2545	0.0	171	0.0	1500	1567	977	1148	13.32	321	67.6	9.1	30.8	23.5	16.1
3-4 PM	2757	0.0	185	0.0	1500	1545	1211	1397+	15.46	377	67.3	8.3	30.8	23.4	14.4
4-5 PM	2709	0.0	182	0.0	OFF	2709	0	182	0.25	23	67.4	60.1	60.1	23.4	23.4
5-6 PM	2385	0.0	161	0.0	OFF	2385	0	161	0.00	0	67.8	67.8	67.8	23.6	23.6
6-7 PM	1805	0.0	121	0.0	OFF	1805	0	121	0.00	0	68.5	68.5	68.5	23.9	23.9
7-8 PM	1370	0.0	92	0.0	OFF	1370	0	92	0.00	0	69.1	69.1	69.1	24.2	24.2
8-9 PM	1218	0.0	82	0.0	OFF	1218	0	82	0.00	0	69.2	69.2	69.2	24.2	24.2
9-10 PM	993	0.0	67	0.0	OFF	993	0	67	0.00	0	69.5	69.5	69.5	24.3	24.3
10-11 PM	784	0.0	52	0.0	OFF	784	0	52	0.00	0	69.7	69.7	69.7	24.5	24.5
11PM-MID	583	0.0	39	0.0	OFF	583	0	39	0.00	0	70.0	70.0	70.0	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	0.0156
MAIN ROUTE WITH WORKS	0.0129
DIVERSION	0.0398

PIA: Personal Injury Accidents

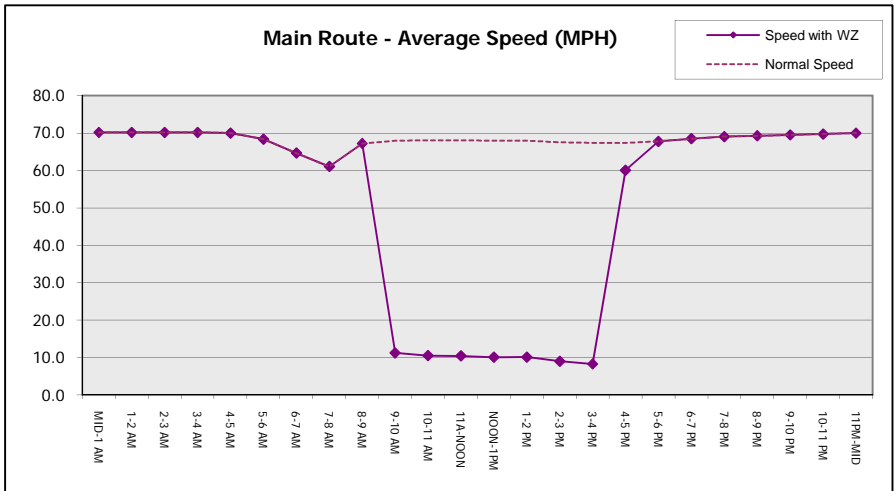
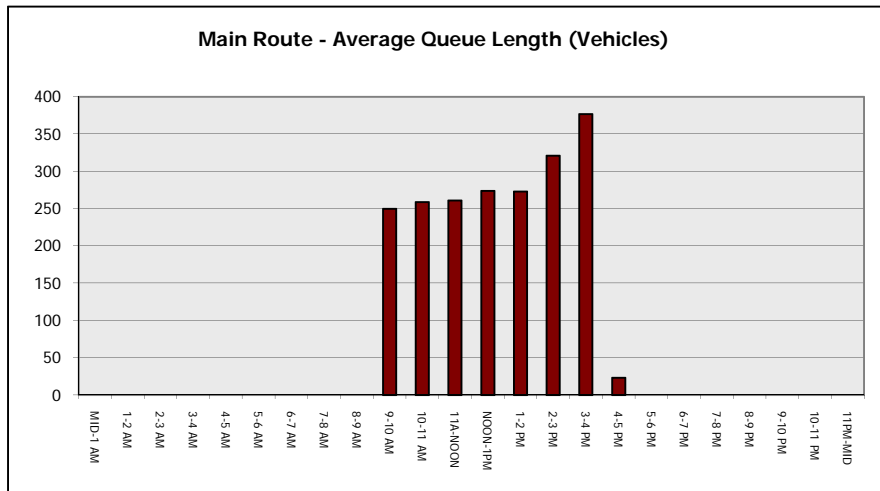
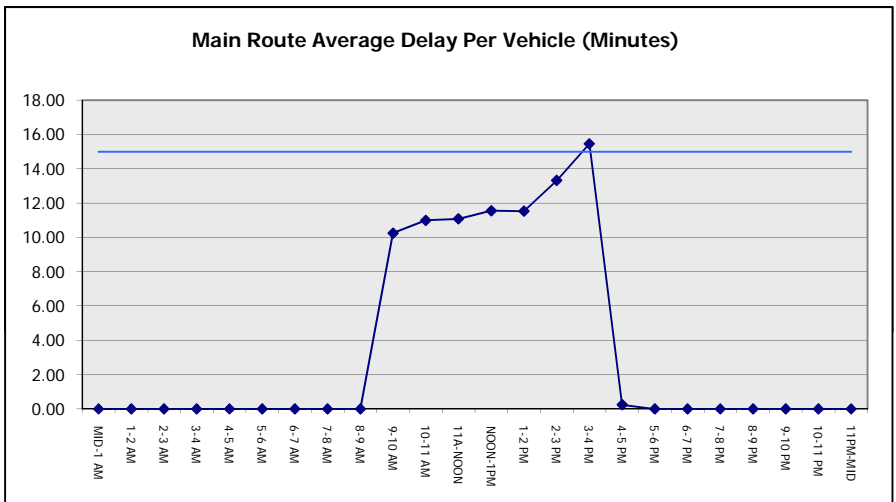
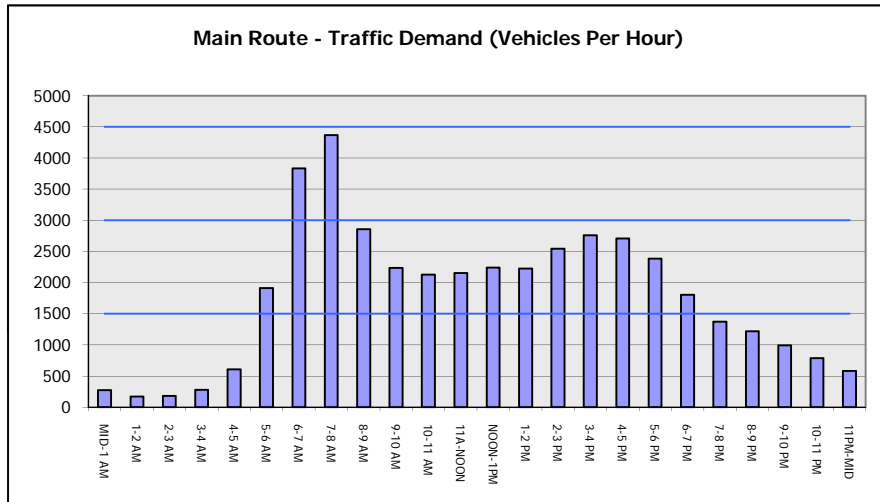
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$47,099
CONGESTED HOURS PER DAY*	1

\*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**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR 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>AUGUST</b> Analyzed for 2009 Construction Season
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<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
MON-THUR	NORTHBOUND 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	354	0.0	24	0.0	OFF	354	0	24	0.00	0	70.2	70.2	70.2	24.7	24.7
1-2 AM	216	0.0	14	0.0	OFF	216	0	14	0.00	0	70.2	70.2	70.2	24.7	24.7
2-3 AM	179	0.0	12	0.0	OFF	179	0	12	0.00	0	70.2	70.2	70.2	24.7	24.7
3-4 AM	197	0.0	13	0.0	OFF	197	0	13	0.00	0	70.2	70.2	70.2	24.7	24.7
4-5 AM	451	0.0	30	0.0	OFF	451	0	30	0.00	0	70.2	70.2	70.2	24.6	24.6
5-6 AM	1163	0.0	78	0.0	OFF	1163	0	78	0.00	0	69.3	69.3	69.3	24.2	24.2
6-7 AM	2018	0.0	136	0.0	OFF	2018	0	136	0.00	0	68.2	68.2	68.2	23.8	23.8
7-8 AM	2086	0.0	140	0.0	OFF	2086	0	140	0.00	0	68.1	68.1	68.1	23.8	23.8
8-9 AM	1836	0.0	124	0.0	OFF	1836	0	124	0.00	0	68.4	68.4	68.4	23.9	23.9
9-10 AM	1729	0.0	116	0.0	1499	1729	0	116	4.81	114	68.6	20.2	30.8	24.0	24.0
10-11 AM	1841	0.0	124	0.0	1499	1496	344	468	9.56	221	68.4	11.9	30.8	23.9	21.2
11A-NOON	2000	0.0	135	0.0	1500	1520	480	615	10.20	238	68.2	11.3	30.8	23.8	20.1
NOON-1PM	2087	0.0	140	0.0	1499	1513	574	714	10.68	251	68.1	10.9	30.8	23.8	19.4
1-2 PM	2290	0.0	154	0.0	1499	1546	744	898	11.67	278	67.9	10.1	30.8	23.7	17.9
2-3 PM	3008	0.0	202	0.0	1500	1670	1338	1540+	16.54	409	67.0	8.0	30.8	23.3	13.8
3-4 PM	3696	0.0	248	0.0	1499	1500	2196	2444+	19.16	475	65.6	7.3	30.8	22.9	12.4
4-5 PM	4428	0.0	297	0.0	OFF	4428	0	297	0.85	71	60.6	44.2	44.2	22.5	22.5
5-6 PM	4022	0.0	271	0.0	OFF	4022	0	271	0.00	0	63.4	63.4	63.4	22.8	22.8
6-7 PM	2344	0.0	157	0.0	OFF	2344	0	157	0.00	0	67.8	67.8	67.8	23.7	23.7
7-8 PM	1609	0.0	108	0.0	OFF	1609	0	108	0.00	0	68.7	68.7	68.7	24.0	24.0
8-9 PM	1357	0.0	92	0.0	OFF	1357	0	92	0.00	0	69.1	69.1	69.1	24.2	24.2
9-10 PM	1158	0.0	78	0.0	OFF	1158	0	78	0.00	0	69.3	69.3	69.3	24.2	24.2
10-11 PM	1016	0.0	68	0.0	OFF	1016	0	68	0.00	0	69.5	69.5	69.5	24.3	24.3
11PM-MID	645	0.0	43	0.0	OFF	645	0	43	0.00	0	69.9	69.9	69.9	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	0.0153
MAIN ROUTE WITH WORKS	0.0125
DIVERSION	0.0409

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$51,992
CONGESTED HOURS PER DAY*	2

\*Delays Exceeding 15 Minutes

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**OFF-PEAK DAY 2 LANE CLOSURE**  
**DIVERSION ROUTE: STH 167 - STH 175 - PIONEER RD**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**MON-THUR NORTHBOUND DIRECTION**

