

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

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	390	0.0	26	0.0	OFF	390	0	26	0.00	0	70.2	70.2	70.2	24.7	24.7
1-2 AM	234	0.0	15	0.0	OFF	234	0	15	0.00	0	70.2	70.2	70.2	24.7	24.7
2-3 AM	211	0.0	14	0.0	OFF	211	0	14	0.00	0	70.2	70.2	70.2	24.7	24.7
3-4 AM	282	0.0	19	0.0	OFF	282	0	19	0.00	0	70.2	70.2	70.2	24.7	24.7
4-5 AM	596	0.0	40	0.0	OFF	596	0	40	0.00	0	70.0	70.0	70.0	24.5	24.5
5-6 AM	1743	0.0	117	0.0	OFF	1743	0	117	0.00	0	68.6	68.6	68.6	24.0	24.0
6-7 AM	3455	0.0	233	0.0	OFF	3455	0	233	0.00	0	66.4	66.4	66.4	23.0	23.0
7-8 AM	3991	0.0	269	0.0	OFF	3991	0	269	0.00	0	63.6	63.6	63.6	22.8	22.8
8-9 AM	2719	0.0	182	0.0	OFF	2719	0	182	0.00	0	67.4	67.4	67.4	23.4	23.4
9-10 AM	2294	0.0	154	0.0	1499	1779	515	669	10.47	257	67.9	11.1	30.8	23.7	19.7
10-11 AM	2271	0.0	152	0.0	1500	1505	766	918	11.79	280	67.9	10.0	30.8	23.7	17.8
11A-NOON	2398	0.0	161	0.0	1500	1526	872	1032	12.50	299	67.8	9.5	30.8	23.6	16.9
NOON-1PM	2506	0.0	169	0.0	1500	1520	986	1155	13.36	322	67.6	9.0	30.8	23.5	16.0
1-2 PM	2516	0.0	169	0.0	1499	1506	1010	1179	13.55	326	67.6	8.9	30.8	23.5	15.9
2-3 PM	2766	0.0	186	0.0	1500	1569	1197	1383+	15.33	374	67.3	8.3	30.8	23.4	14.5
3-4 PM	2978	0.0	200	0.0	1500	1559	1419	1619+	18.01	444	67.0	7.6	30.8	23.3	12.9
4-5 PM	2797	0.0	188	0.0	OFF	2797	0	188	0.35	33	67.3	57.4	57.4	23.4	23.4
5-6 PM	2611	0.0	175	0.0	OFF	2611	0	175	0.00	0	67.5	67.5	67.5	23.5	23.5
6-7 PM	2146	0.0	144	0.0	OFF	2146	0	144	0.00	0	68.1	68.1	68.1	23.7	23.7
7-8 PM	1576	0.0	106	0.0	OFF	1576	0	106	0.00	0	68.7	68.7	68.7	24.0	24.0
8-9 PM	1294	0.0	86	0.0	OFF	1294	0	86	0.00	0	69.1	69.1	69.1	24.2	24.2
9-10 PM	1198	0.0	80	0.0	OFF	1198	0	80	0.00	0	69.2	69.2	69.2	24.2	24.2
10-11 PM	981	0.0	66	0.0	OFF	981	0	66	0.00	0	69.5	69.5	69.5	24.3	24.3
11PM-MID	810	0.0	55	0.0	OFF	810	0	55	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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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 (VEH-H) MAX	0.0
RANGE OF DIVN DELAY - MIN (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	0.0164
MAIN ROUTE WITH WORKS	0.0132
DIVERSION	0.0471

PIA: Personal Injury Accidents

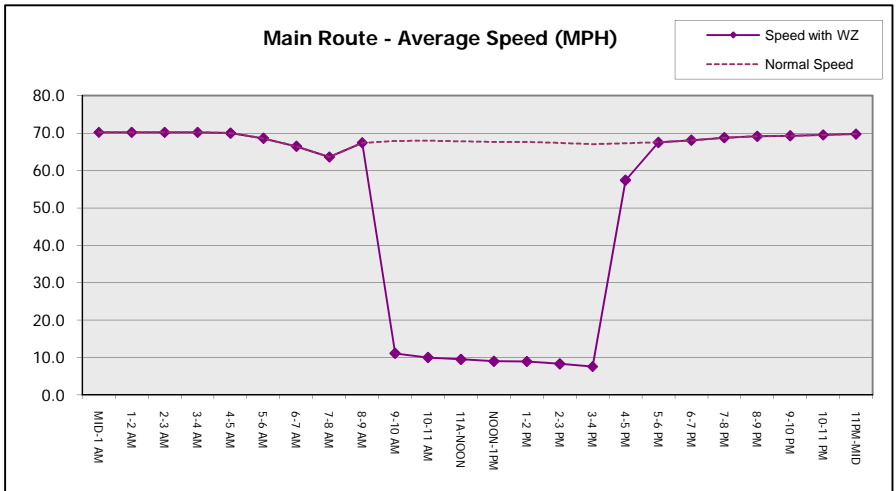
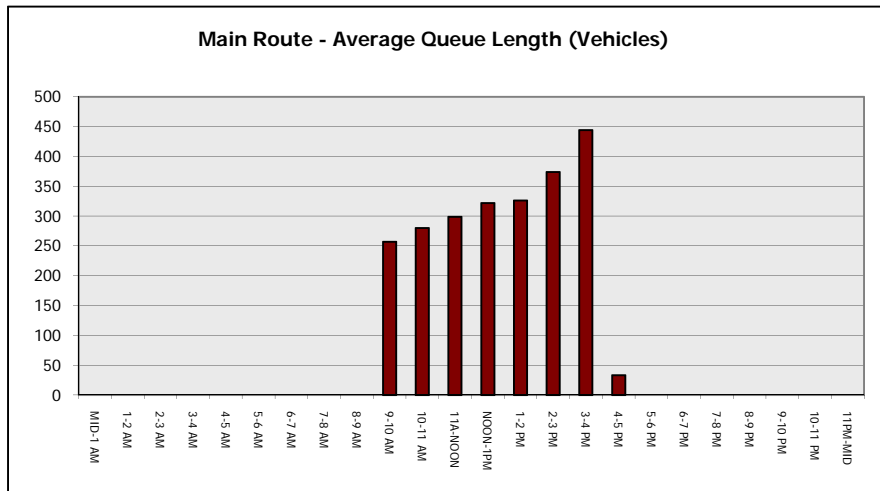
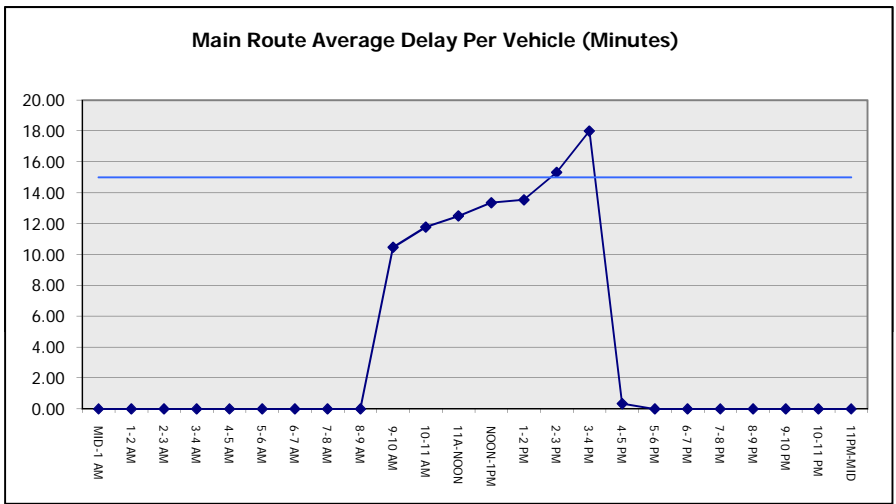
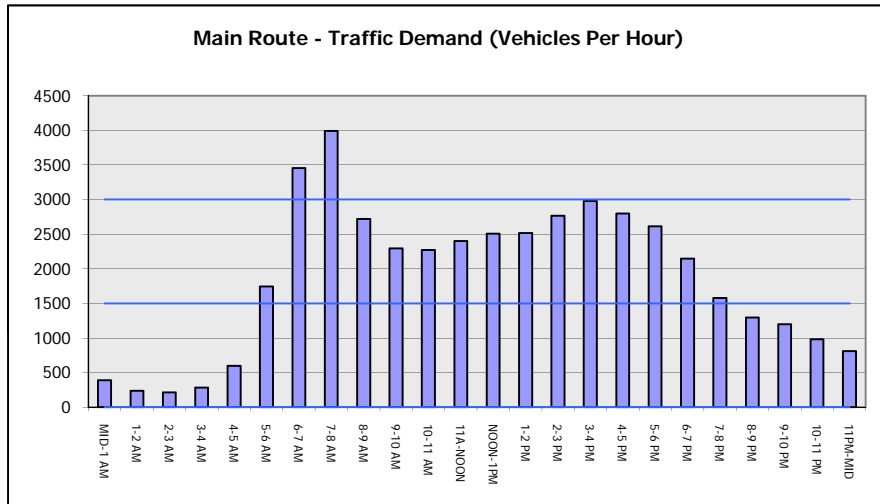
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$59,902
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

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

AUGUST
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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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
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SUMMARY OF TRAFFIC MODEL OUTPUT	
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		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	398	0.0	27	0.0	OFF	398	0	27	0.00	0	70.2	70.2	70.2	24.7	24.7
1-2 AM	267	0.0	17	0.0	OFF	267	0	17	0.00	0	70.2	70.2	70.2	24.7	24.7
2-3 AM	251	0.0	16	0.0	OFF	251	0	16	0.00	0	70.2	70.2	70.2	24.7	24.7
3-4 AM	225	0.0	15	0.0	OFF	225	0	15	0.00	0	70.2	70.2	70.2	24.7	24.7
4-5 AM	458	0.0	31	0.0	OFF	458	0	31	0.00	0	70.2	70.2	70.2	24.6	24.6
5-6 AM	1144	0.0	77	0.0	OFF	1144	0	77	0.00	0	69.3	69.3	69.3	24.2	24.2
6-7 AM	2004	0.0	135	0.0	OFF	2004	0	135	0.00	0	68.2	68.2	68.2	23.8	23.8
7-8 AM	2091	0.0	141	0.0	OFF	2091	0	141	0.00	0	68.1	68.1	68.1	23.8	23.8
8-9 AM	1946	0.0	131	0.0	OFF	1946	0	131	0.00	0	68.3	68.3	68.3	23.8	23.8
9-10 AM	1996	0.0	134	0.0	1499	1746	250	384	7.31	178	68.2	14.8	30.8	23.8	21.9
10-11 AM	2227	0.0	149	0.0	1500	1540	686	835	11.32	268	67.9	10.3	30.8	23.7	18.4
11A-NOON	2584	0.0	174	0.0	1500	1572	1011	1185	13.61	329	67.5	8.9	30.8	23.5	15.8
NOON-1PM	2824	0.0	189	0.0	1500	1560	1264	1453+	16.05	393	67.3	8.1	30.8	23.4	14.0
1-2 PM	2937	0.0	198	0.0	1499	1554	1383	1581+	17.52	431	67.1	7.7	30.8	23.3	13.2
2-3 PM	3664	0.0	246	0.0	1499	1500	2164	2410+	19.17	475	65.8	7.3	30.8	23.0	12.4
3-4 PM	4173	0.0	280	0.0	1500	1500	2673	2953+	19.04	475	62.3	7.3	30.8	22.7	12.4
4-5 PM	4545	0.0	306	0.0	OFF	4545	0	306	0.90	76	59.8	43.0	43.0	22.5	22.5
5-6 PM	4218	0.0	283	0.0	OFF	4218	0	283	0.00	0	62.0	62.0	62.0	22.7	22.7
6-7 PM	2900	0.0	195	0.0	OFF	2900	0	195	0.00	0	67.1	67.1	67.1	23.3	23.3
7-8 PM	2033	0.0	137	0.0	OFF	2033	0	137	0.00	0	68.2	68.2	68.2	23.8	23.8
8-9 PM	1691	0.0	113	0.0	OFF	1691	0	113	0.00	0	68.6	68.6	68.6	24.0	24.0
9-10 PM	1555	0.0	105	0.0	OFF	1555	0	105	0.00	0	68.8	68.8	68.8	24.0	24.0
10-11 PM	1457	0.0	98	0.0	OFF	1457	0	98	0.00	0	68.9	68.9	68.9	24.1	24.1
11PM-MID	972	0.0	65	0.0	OFF	972	0	65	0.00	0	69.6	69.6	69.6	24.3	24.3

"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	0.0178
MAIN ROUTE WITH WORKS	0.0136
DIVERSION	0.0612

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$79,477
CONGESTED HOURS PER DAY*	4

*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
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FRIDAY NORTHBOUND DIRECTION

