

**USH 41: STH 67 TO STH 60 (WASHINGTON AND DODGE COUNTIES)  
OFF-PEAK DAY CLOSURE  
DIVERSION ROUTE: CTH K - STH 175 - STH 33**

**AUGUST**  
Analyzed for 2009  
Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**  
SUNDAY 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	442	0.0	114	0.0	OFF	442	0	114	0.00	0	65.6	65.6	65.6	24.0	24.0
1-2 AM	260	0.0	68	0.0	OFF	260	0	68	0.00	0	65.9	65.9	65.9	24.3	24.3
2-3 AM	93	0.0	24	0.0	OFF	93	0	24	0.00	0	66.2	66.2	66.2	24.7	24.7
3-4 AM	81	0.0	21	0.0	OFF	81	0	21	0.00	0	66.3	66.3	66.3	24.7	24.7
4-5 AM	96	0.0	25	0.0	OFF	96	0	25	0.00	0	66.2	66.2	66.2	24.7	24.7
5-6 AM	126	0.0	32	0.0	OFF	126	0	32	0.00	0	66.1	66.1	66.1	24.6	24.6
6-7 AM	186	0.0	48	0.0	OFF	186	0	48	0.00	0	66.0	66.0	66.0	24.5	24.5
7-8 AM	321	0.0	83	0.0	OFF	321	0	83	0.00	0	65.8	65.8	65.8	24.2	24.2
8-9 AM	601	0.0	155	0.0	OFF	601	0	155	0.00	0	65.3	65.3	65.3	23.7	23.7
9-10 AM	1030	0.0	267	0.0	1499	1030	0	267	0.54	0	64.5	56.8	41.0	22.8	22.8
10-11 AM	1579	0.0	409	0.0	1499	1579	0	409	1.73	23	63.5	44.5	31.1	21.7	21.7
11A-NOON	1903	0.0	493	0.0	1500	1903	0	493	10.48	284	62.8	17.7	30.8	21.1	21.1
NOON-1PM	1935	0.0	501	0.0	1499	1595	340	841	21.70	559	62.8	10.2	30.8	21.0	18.5
1-2 PM	2087	0.0	540	0.0	1500	1568	519	1060	24.36	631	62.5	9.6	30.8	20.7	17.1
2-3 PM	2132	0.0	552	0.0	1499	1517	615	1166	25.86	672	62.4	9.4	30.8	20.6	16.5
3-4 PM	2074	0.0	537	0.0	1499	1482	592	1129	25.32	657	62.5	9.4	30.8	20.7	16.7
4-5 PM	2349	0.0	608	0.0	1500	1631	718	1326+	28.44	743	62.0	8.9	30.8	20.2	15.5
5-6 PM	2078	0.0	538	0.0	1499	1350	728	1267+	27.48	716	62.5	9.1	30.8	20.7	15.8
6-7 PM	1786	0.0	462	0.0	1500	1372	413	876	22.12	571	63.0	10.1	30.8	21.3	18.3
7-8 PM	1462	0.0	379	0.0	OFF	1462	0	379	0.84	51	63.7	52.7	52.7	21.9	21.9
8-9 PM	1115	0.0	289	0.0	OFF	1115	0	289	0.00	0	64.3	64.3	64.3	22.6	22.6
9-10 PM	676	0.0	175	0.0	OFF	676	0	175	0.00	0	65.1	65.1	65.1	23.5	23.5
10-11 PM	384	0.0	100	0.0	OFF	384	0	100	0.00	0	65.6	65.6	65.6	24.1	24.1
11PM-MID	190	0.0	49	0.0	OFF	190	0	49	0.00	0	66.0	66.0	66.0	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 (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	0.0171
MAIN ROUTE WITH WORKS	0.0134
DIVERSION	0.0965

PIA: Personal Injury Accidents

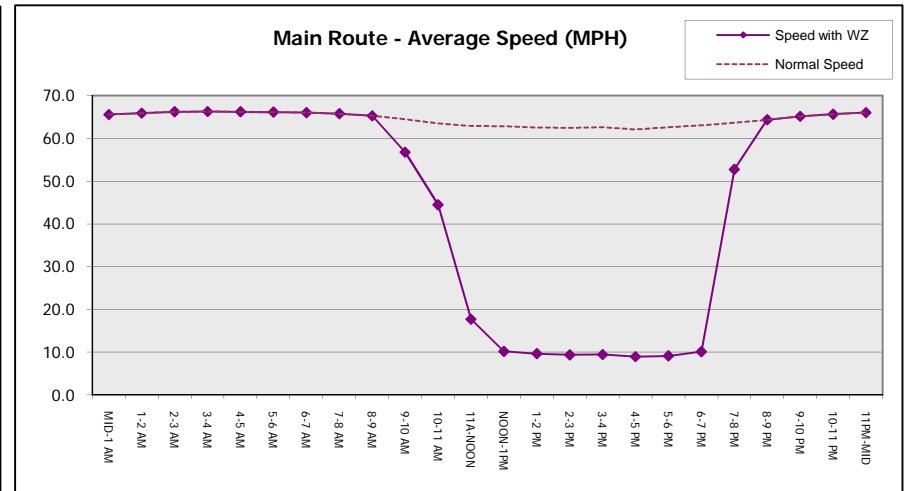
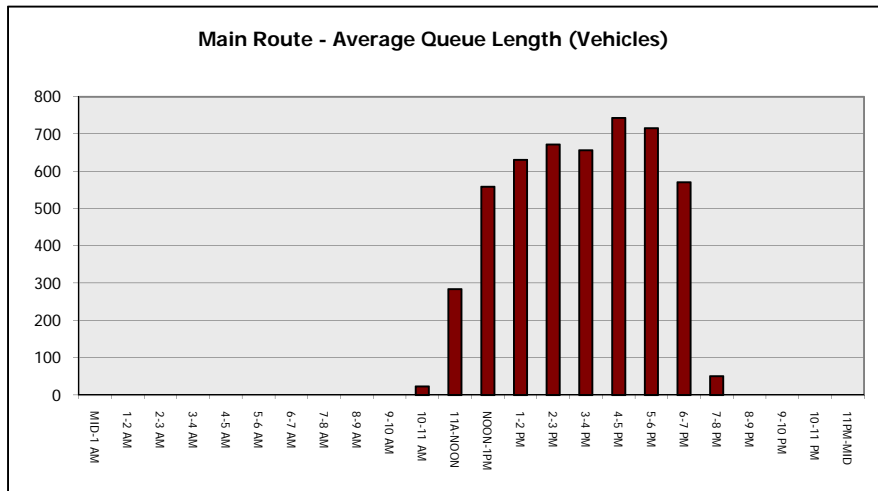
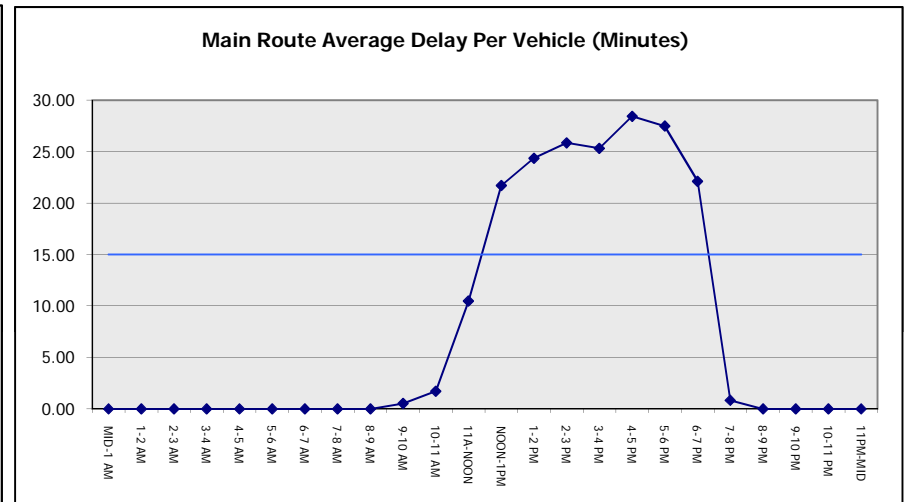
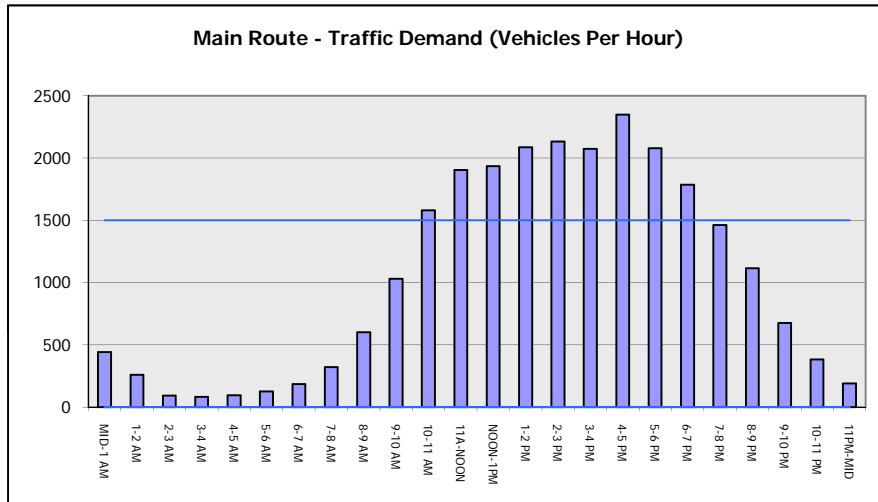
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$117,633
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding 15 Minutes

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**AUGUST**  
 Analyzed for 2009  
 Construction Season

**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY SOUTHBOUND DIRECTION**



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**SUMMARY OF TRAFFIC MODEL OUTPUT**  
SUNDAY NORTHBOUND 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		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	204	0.0	53	0.0	OFF	204	0	53	0.00	0	66.0	66.0	66.0	24.5	24.5
1-2 AM	138	0.0	36	0.0	OFF	138	0	36	0.00	0	66.1	66.1	66.1	24.6	24.6
2-3 AM	79	0.0	21	0.0	OFF	79	0	21	0.00	0	66.3	66.3	66.3	24.7	24.7
3-4 AM	61	0.0	15	0.0	OFF	61	0	15	0.00	0	66.3	66.3	66.3	24.7	24.7
4-5 AM	67	0.0	18	0.0	OFF	67	0	18	0.00	0	66.3	66.3	66.3	24.7	24.7
5-6 AM	102	0.0	27	0.0	OFF	102	0	27	0.00	0	66.2	66.2	66.2	24.7	24.7
6-7 AM	207	0.0	54	0.0	OFF	207	0	54	0.00	0	66.0	66.0	66.0	24.4	24.4
7-8 AM	351	0.0	91	0.0	OFF	351	0	91	0.00	0	65.7	65.7	65.7	24.2	24.2
8-9 AM	554	0.0	143	0.0	OFF	554	0	143	0.00	0	65.3	65.3	65.3	23.7	23.7
9-10 AM	791	0.0	205	0.0	1500	791	0	205	0.50	0	64.9	57.7	42.4	23.3	23.3
10-11 AM	1062	0.0	275	0.0	1500	1062	0	275	0.53	0	64.4	56.9	41.5	22.7	22.7
11A-NOON	1142	0.0	295	0.0	1500	1142	0	295	0.56	0	64.3	56.4	40.4	22.6	22.6
NOON-1PM	1078	0.0	279	0.0	1500	1078	0	279	0.53	0	64.4	56.9	41.4	22.7	22.7
1-2 PM	1056	0.0	274	0.0	1500	1056	0	274	0.52	0	64.4	56.9	41.5	22.7	22.7
2-3 PM	1061	0.0	275	0.0	1500	1061	0	275	0.52	0	64.4	56.9	41.5	22.7	22.7
3-4 PM	1049	0.0	272	0.0	1500	1049	0	272	0.52	0	64.5	56.9	41.5	22.7	22.7
4-5 PM	1178	0.0	305	0.0	1500	1178	0	305	0.61	0	64.2	55.8	39.2	22.5	22.5
5-6 PM	1221	0.0	316	0.0	1500	1221	0	316	0.66	0	64.1	55.0	37.8	22.4	22.4
6-7 PM	1083	0.0	281	0.0	1500	1083	0	281	0.53	0	64.4	56.9	41.4	22.7	22.7
7-8 PM	815	0.0	211	0.0	OFF	815	0	211	0.00	0	64.9	64.9	64.9	23.2	23.2
8-9 PM	686	0.0	177	0.0	OFF	686	0	177	0.00	0	65.1	65.1	65.1	23.5	23.5
9-10 PM	502	0.0	130	0.0	OFF	502	0	130	0.00	0	65.5	65.5	65.5	23.8	23.8
10-11 PM	397	0.0	103	0.0	OFF	397	0	103	0.00	0	65.6	65.6	65.6	24.0	24.0
11PM-MID	273	0.0	71	0.0	OFF	273	0	71	0.00	0	65.9	65.9	65.9	24.3	24.3

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

*----- 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	0.0104
MAIN ROUTE WITH WORKS	0.0097
DIVERSION	0.0364

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$1,791
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding 15 Minutes

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**OFF-PEAK DAY CLOSURE**  
**DIVERSION ROUTE: CTH K - STH 175 - STH 33**

**AUGUST**  
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 Construction Season

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