

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)**  
**OFF-PEAK DAY 2 LANE CLOSURE**  
**DIVERSION ROUTE: BUS 51 - STH 52**

**AUGUST**

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	150	0.0	72	0.0	OFF	150	0	72	0.00	0	70.2	70.2	70.2	31.6	31.6
1-2 AM	112	0.0	47	0.0	OFF	112	0	47	0.00	0	70.2	70.2	70.2	32.3	32.3
2-3 AM	119	0.0	42	0.0	OFF	119	0	42	0.00	0	70.2	70.2	70.2	32.4	32.4
3-4 AM	207	0.0	56	0.0	OFF	207	0	56	0.00	0	70.2	70.2	70.2	32.0	32.0
4-5 AM	490	0.0	129	0.0	OFF	490	0	129	0.00	0	70.1	70.1	70.1	30.1	30.1
5-6 AM	1232	0.0	274	0.0	OFF	1232	0	274	0.00	0	69.2	69.2	69.2	26.3	26.3
6-7 AM	1721	0.0	627	0.0	OFF	1721	0	627	0.00	0	68.6	68.6	68.6	18.3	18.3
7-8 AM	1761	0.0	719	0.0	OFF	1761	0	719	0.00	0	68.6	68.6	68.6	16.5	16.5
8-9 AM	1583	0.0	574	0.0	OFF	1583	0	574	0.00	0	68.7	68.7	68.7	19.3	19.3
9-10 AM	1669	0.0	573	0.0	OFF	1669	0	573	0.00	0	68.7	68.7	68.7	19.3	19.3
10-11 AM	1877	0.0	638	0.0	1499	1877	0	638	6.75	178	68.4	25.9	30.8	18.0	18.0
11A-NOON	1999	0.0	693	0.0	1499	1882	118	810+	22.82	585	68.2	10.4	30.8	17.0	14.8
NOON-1PM	2077	0.0	760	0.0	1500	1507	571	1330+	32.27	817	68.1	7.8	30.8	15.7	11.2
1-2 PM	2204	0.0	829	0.0	1500	1500	704	1533+	32.32	818	68.0	7.7	30.8	14.3	11.2
2-3 PM	2410	0.0	990	0.0	1500	1500	910	1900+	32.31	818	67.8	7.7	30.8	12.2	11.2
3-4 PM	2644	0.0	1137	0.0	OFF	2644	0	1137+	0.93	87	67.4	55.1	55.1	11.2	11.2
4-5 PM	2840	0.0	1228	0.0	OFF	2840	0	1228+	0.00	0	67.2	67.2	67.2	11.2	11.2
5-6 PM	2236	0.0	1112	0.0	OFF	2236	0	1112+	0.00	0	67.9	67.9	67.9	11.2	11.2
6-7 PM	1504	0.0	684	0.0	OFF	1504	0	684	0.00	0	68.9	68.9	68.9	17.1	17.1
7-8 PM	1161	0.0	556	0.0	OFF	1161	0	556	0.00	0	69.3	69.3	69.3	19.6	19.6
8-9 PM	1004	0.0	464	0.0	OFF	1004	0	464	0.00	0	69.5	69.5	69.5	21.4	21.4
9-10 PM	774	0.0	347	0.0	OFF	774	0	347	0.00	0	69.8	69.8	69.8	24.3	24.3
10-11 PM	554	0.0	238	0.0	OFF	554	0	238	0.00	0	70.0	70.0	70.0	27.2	27.2
11PM-MID	287	0.0	169	0.0	OFF	287	0	169	0.00	0	70.2	70.2	70.2	29.1	29.1

"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	0.0244
MAIN ROUTE WITH WORKS	0.0221
DIVERSION	0.1450

PIA: Personal Injury Accidents

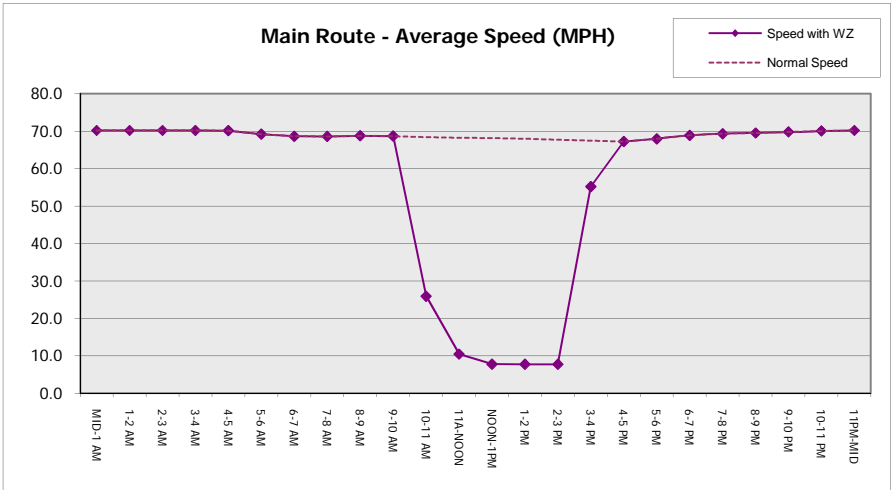
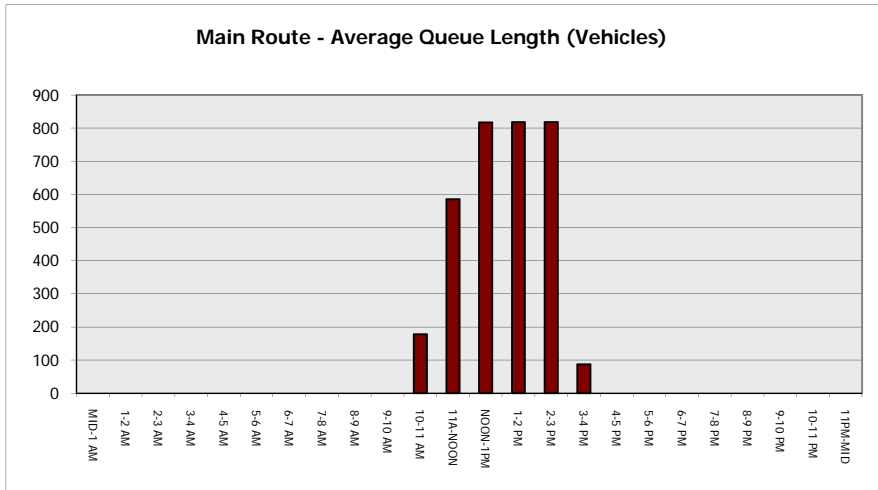
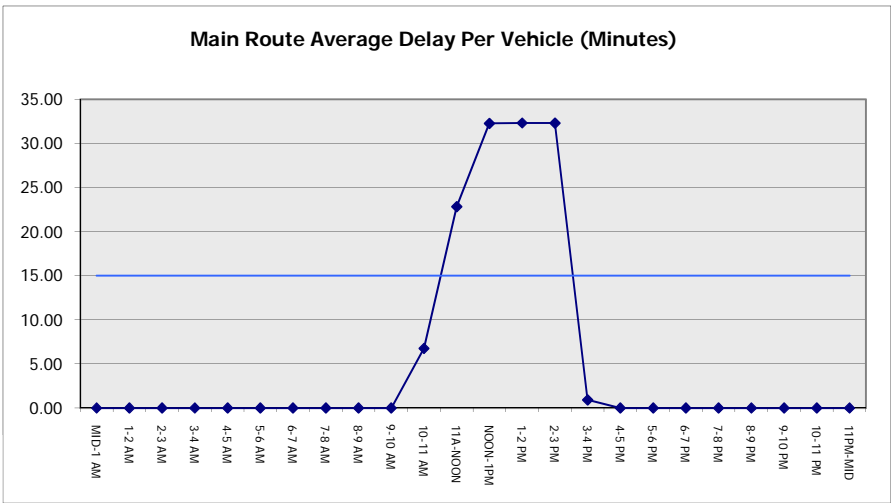
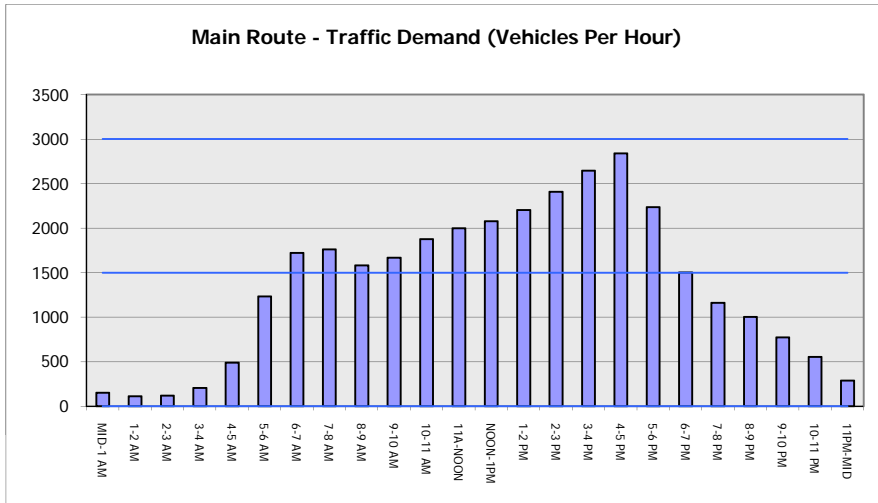
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$64,200
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 OFF-PEAK DAY 2 LANE CLOSURE  
 DIVERSION ROUTE: BUS 51 - STH 52**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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



<b>USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)</b> <b>OFF-PEAK DAY 2 LANE CLOSURE</b> <b>DIVERSION ROUTE: BUS 51 - STH 52</b>	<b>AUGUST</b>
	Analyzed for 2009 Construction Season

<b>SUMMARY OF TRAFFIC MODEL OUTPUT</b>	
MON-THUR	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	202	0.0	95	0.0	OFF	202	0	95	0.00	0	70.2	70.2	70.2	31.1	31.1
1-2 AM	141	0.0	49	0.0	OFF	141	0	49	0.00	0	70.2	70.2	70.2	32.2	32.2
2-3 AM	127	0.0	48	0.0	OFF	127	0	48	0.00	0	70.2	70.2	70.2	32.2	32.2
3-4 AM	188	0.0	65	0.0	OFF	188	0	65	0.00	0	70.2	70.2	70.2	31.8	31.8
4-5 AM	379	0.0	138	0.0	OFF	379	0	138	0.00	0	70.2	70.2	70.2	29.9	29.9
5-6 AM	1037	0.0	397	0.0	OFF	1037	0	397	0.00	0	69.4	69.4	69.4	23.0	23.0
6-7 AM	1939	0.0	849	0.0	OFF	1939	0	849+	0.00	0	68.3	68.3	68.3	13.9	13.9
7-8 AM	2218	0.0	1082	0.0	OFF	2218	0	1082+	0.00	0	68.0	68.0	68.0	11.2	11.2
8-9 AM	1645	0.0	756	0.0	OFF	1645	0	756	0.00	0	68.7	68.7	68.7	15.8	15.8
9-10 AM	1675	0.0	646	0.0	OFF	1675	0	646	0.00	0	68.7	68.7	68.7	17.9	17.9
10-11 AM	1792	0.0	653	0.0	OFF	1499	1792	653	5.70	140	68.5	28.7	30.8	17.8	17.8
11A-NOON	1845	0.0	692	0.0	OFF	1500	1818	719	18.00	457	68.4	12.7	30.8	17.0	16.5
NOON-1PM	1895	0.0	698	0.0	OFF	1499	1658	935+	27.69	698	68.4	8.9	30.8	16.9	12.8
1-2 PM	2001	0.0	723	0.0	OFF	1500	1548	1175+	31.87	806	68.2	7.8	30.8	16.4	11.3
2-3 PM	2342	0.0	804	0.0	OFF	1500	1500	1646+	32.31	818	67.8	7.7	30.8	14.8	11.2
3-4 PM	2390	0.0	930	0.0	OFF	2390	0	930+	0.99	92	67.8	54.8	54.8	12.8	12.8
4-5 PM	2603	0.0	938	0.0	OFF	2603	0	938+	0.00	0	67.5	67.5	67.5	12.7	12.7
5-6 PM	2250	0.0	847	0.0	OFF	2250	0	847+	0.00	0	67.9	67.9	67.9	13.9	13.9
6-7 PM	1555	0.0	585	0.0	OFF	1555	0	585	0.00	0	68.8	68.8	68.8	19.1	19.1
7-8 PM	1176	0.0	408	0.0	OFF	1176	0	408	0.00	0	69.2	69.2	69.2	22.7	22.7
8-9 PM	972	0.0	329	0.0	OFF	972	0	329	0.00	0	69.6	69.6	69.6	24.8	24.8
9-10 PM	770	0.0	248	0.0	OFF	770	0	248	0.00	0	69.8	69.8	69.8	27.0	27.0
10-11 PM	585	0.0	211	0.0	OFF	585	0	211	0.00	0	70.0	70.0	70.0	27.9	27.9
11PM-MID	363	0.0	151	0.0	OFF	363	0	151	0.00	0	70.2	70.2	70.2	29.5	29.5

"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	0.0240
MAIN ROUTE WITH WORKS	0.0223
DIVERSION	0.1320

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY ( DOLLARS)	\$55,119
CONGESTED HOURS PER DAY*	4

\*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)  
 OFF-PEAK DAY 2 LANE CLOSURE  
 DIVERSION ROUTE: BUS 51 - STH 52**

**AUGUST**  
 Analyzed for 2009  
 Construction Season

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

