

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	OCTOBER
	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	186	0.0	75	0.0	OFF	186	0	75	0.00	0	70.2	70.2	70.2	31.5	31.5
1-2 AM	107	0.0	54	0.0	OFF	107	0	54	0.00	0	70.2	70.2	70.2	32.1	32.1
2-3 AM	103	0.0	46	0.0	OFF	103	0	46	0.00	0	70.2	70.2	70.2	32.3	32.3
3-4 AM	182	0.0	52	0.0	OFF	182	0	52	0.00	0	70.2	70.2	70.2	32.2	32.2
4-5 AM	298	0.0	118	0.0	OFF	298	0	118	0.00	0	70.2	70.2	70.2	30.4	30.4
5-6 AM	754	0.0	254	0.0	OFF	754	0	254	0.00	0	69.8	69.8	69.8	26.8	26.8
6-7 AM	1655	0.0	570	0.0	OFF	1655	0	570	0.00	0	68.7	68.7	68.7	19.3	19.3
7-8 AM	1790	0.0	696	0.0	OFF	1790	0	696	0.00	0	68.5	68.5	68.5	16.9	16.9
8-9 AM	1583	0.0	536	0.0	OFF	1583	0	536	0.00	0	68.7	68.7	68.7	20.0	20.0
9-10 AM	1617	0.0	571	0.0	OFF	1617	0	571	0.00	0	68.7	68.7	68.7	19.3	19.3
10-11 AM	1818	0.0	690	0.0	1499	1818	0	690	5.86	148	68.5	28.3	30.8	17.0	17.0
11A-NOON	1962	0.0	795	0.0	1500	1932	30	825+	20.61	534	68.3	11.4	30.8	15.0	14.6
NOON-1PM	2159	0.0	865	0.0	1499	1500	659	1523+	32.33	818	68.1	7.7	30.8	13.6	11.2
1-2 PM	2197	0.0	943	0.0	1499	1500	697	1640+	32.32	818	68.0	7.7	30.8	12.7	11.2
2-3 PM	2531	0.0	1119	0.0	1499	1500	1031	2150+	32.30	818	67.6	7.7	30.8	11.2	11.2
3-4 PM	2878	0.0	1328	0.0	OFF	2878	0	1328+	0.97	90	67.1	54.5	54.5	11.2	11.2
4-5 PM	3066	0.0	1297	0.0	OFF	3066	0	1297+	0.00	0	66.9	66.9	66.9	11.2	11.2
5-6 PM	2705	0.0	1107	0.0	OFF	2705	0	1107+	0.00	0	67.4	67.4	67.4	11.2	11.2
6-7 PM	1902	0.0	825	0.0	OFF	1902	0	825+	0.00	0	68.4	68.4	68.4	14.4	14.4
7-8 PM	1388	0.0	629	0.0	OFF	1388	0	629	0.00	0	69.0	69.0	69.0	18.2	18.2
8-9 PM	1059	0.0	493	0.0	OFF	1059	0	493	0.00	0	69.4	69.4	69.4	20.8	20.8
9-10 PM	825	0.0	388	0.0	OFF	825	0	388	0.00	0	69.7	69.7	69.7	23.2	23.2
10-11 PM	597	0.0	284	0.0	OFF	597	0	284	0.00	0	70.0	70.0	70.0	26.0	26.0
11PM-MID	395	0.0	209	0.0	OFF	395	0	209	0.00	0	70.2	70.2	70.2	28.0	28.0

"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	0.0252
MAIN ROUTE WITH WORKS	0.0229
DIVERSION	0.1554

PIA: Personal Injury Accidents

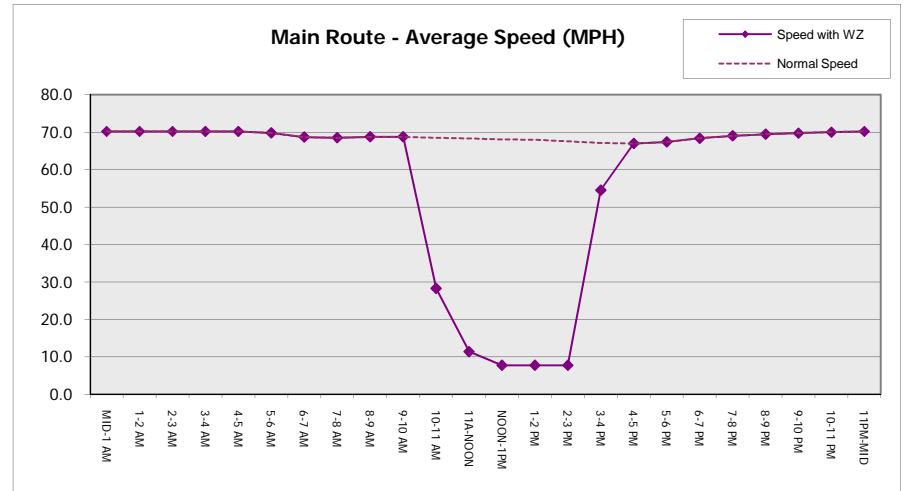
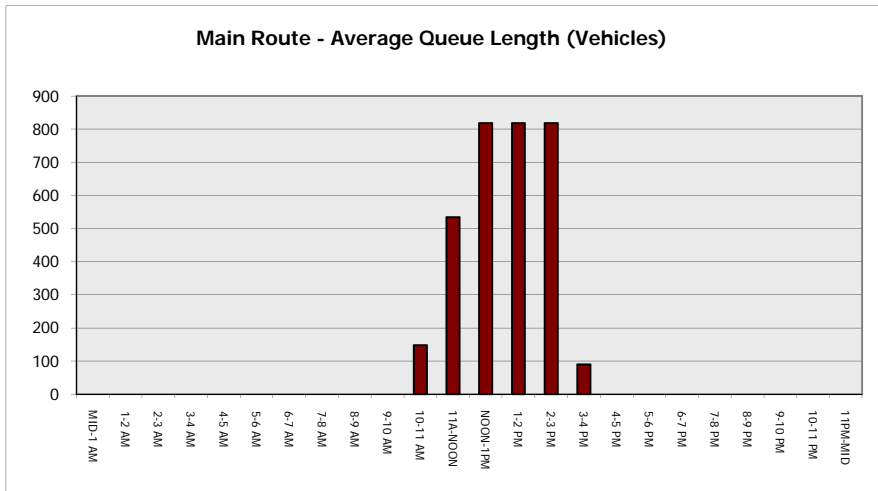
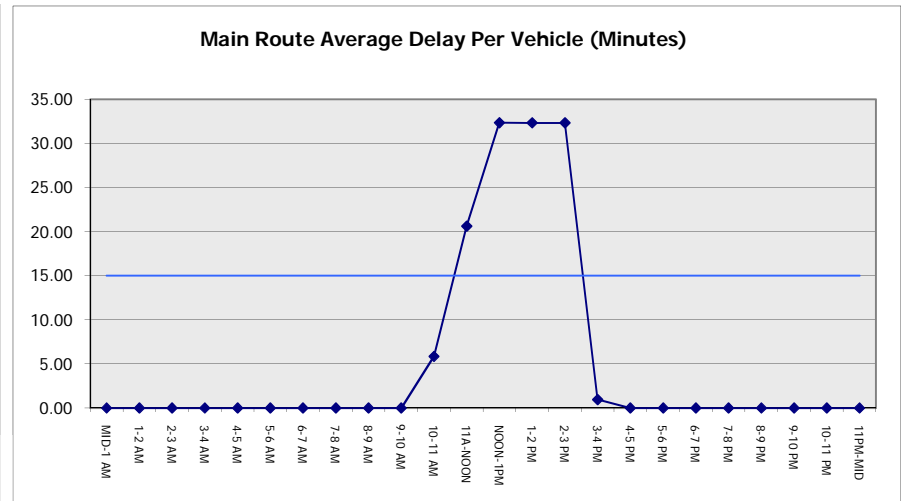
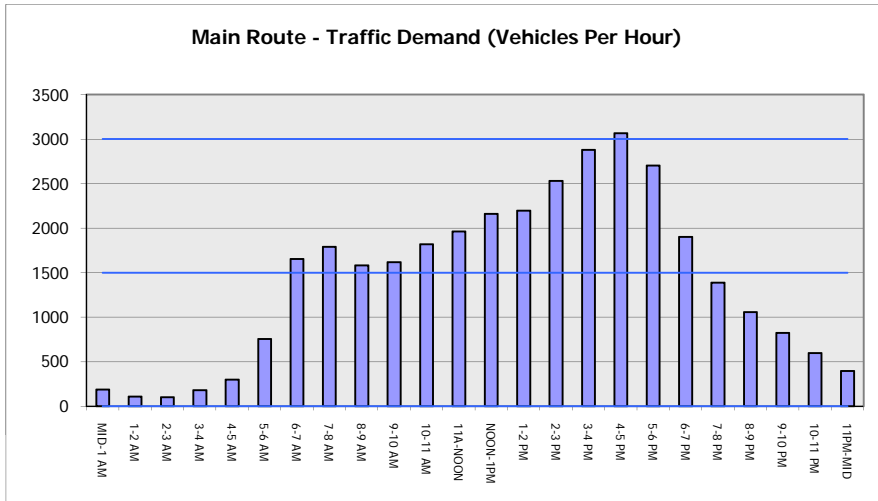
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$64,158
CONGESTED HOURS PER DAY*	4

*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**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION



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

SUMMARY OF TRAFFIC MODEL OUTPUT	
FRIDAY	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		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	298	0.0	59	0.0	OFF	298	0	59	0.00	0	70.2	70.2	70.2	32.0	32.0	
1-2 AM	141	0.0	56	0.0	OFF	141	0	56	0.00	0	70.2	70.2	70.2	32.0	32.0	
2-3 AM	135	0.0	57	0.0	OFF	135	0	57	0.00	0	70.2	70.2	70.2	32.0	32.0	
3-4 AM	202	0.0	71	0.0	OFF	202	0	71	0.00	0	70.2	70.2	70.2	31.7	31.7	
4-5 AM	307	0.0	143	0.0	OFF	307	0	143	0.00	0	70.2	70.2	70.2	29.7	29.7	
5-6 AM	705	0.0	344	0.0	OFF	705	0	344	0.00	0	69.9	69.9	69.9	24.4	24.4	
6-7 AM	1676	0.0	791	0.0	OFF	1676	0	791	0.00	0	68.6	68.6	68.6	15.1	15.1	
7-8 AM	2319	0.0	1108	0.0	OFF	2319	0	1108+	0.00	0	67.9	67.9	67.9	11.2	11.2	
8-9 AM	1819	0.0	802	0.0	OFF	1819	0	802+	0.00	0	68.5	68.5	68.5	14.9	14.9	
9-10 AM	1958	0.0	722	0.0	OFF	1958	0	722	0.00	0	68.3	68.3	68.3	16.5	16.5	
10-11 AM	2221	0.0	750	0.0	OFF	1499	2203	769	11.71	346	68.0	17.8	30.8	15.9	15.5	
11A-NOON	2324	0.0	806	0.0	OFF	1125	934	1390	2196+	41.28	67.9	6.2	37.0	14.8	11.2	
NOON-1PM	2450	0.0	809	0.0	OFF	987	1273	1177	1986+	30.03	67.7	8.3	38.8	14.7	11.9	
1-2 PM	2608	0.0	866	0.0	OFF	1500	1500	1107	1973+	32.29	818	67.5	7.7	30.8	13.5	11.2
2-3 PM	2882	0.0	942	0.0	OFF	1500	1500	1382	2324+	32.27	818	67.1	7.7	30.8	12.7	11.2
3-4 PM	3408	0.0	1076	0.0	OFF	3408	0	1076+	1.53	122	66.5	48.9	48.9	11.2	11.2	
4-5 PM	3344	0.0	1067	0.0	OFF	3344	0	1067+	0.00	0	66.6	66.6	66.6	11.2	11.2	
5-6 PM	3288	0.0	992	0.0	OFF	3288	0	992+	0.00	0	66.6	66.6	66.6	12.2	12.2	
6-7 PM	2725	0.0	771	0.0	OFF	2725	0	771	0.00	0	67.4	67.4	67.4	15.5	15.5	
7-8 PM	2235	0.0	558	0.0	OFF	2235	0	558	0.00	0	67.9	67.9	67.9	19.6	19.6	
8-9 PM	1749	0.0	367	0.0	OFF	1749	0	367	0.00	0	68.6	68.6	68.6	23.8	23.8	
9-10 PM	1322	0.0	299	0.0	OFF	1322	0	299	0.00	0	69.1	69.1	69.1	25.6	25.6	
10-11 PM	887	0.0	239	0.0	OFF	887	0	239	0.00	0	69.6	69.6	69.6	27.2	27.2	
11PM-MID	528	0.0	185	0.0	OFF	528	0	185	0.00	0	70.0	70.0	70.0	28.6	28.6	

"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	0.0310
MAIN ROUTE WITH WORKS	0.0268
DIVERSION	0.1801

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$87,715
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**

OCTOBER
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

