

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) OFF-PEAK DAY 2 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	MAY
	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	138	0.0	62	0.0	OFF	138	0	62	0.00	0	70.2	70.2	70.2	31.9	31.9
1-2 AM	100	0.0	41	0.0	OFF	100	0	41	0.00	0	70.2	70.2	70.2	32.4	32.4
2-3 AM	103	0.0	38	0.0	OFF	103	0	38	0.00	0	70.2	70.2	70.2	32.5	32.5
3-4 AM	182	0.0	62	0.0	OFF	182	0	62	0.00	0	70.2	70.2	70.2	31.9	31.9
4-5 AM	408	0.0	169	0.0	OFF	408	0	169	0.00	0	70.2	70.2	70.2	29.1	29.1
5-6 AM	995	0.0	357	0.0	OFF	995	0	357	0.00	0	69.5	69.5	69.5	24.0	24.0
6-7 AM	1723	0.0	764	0.0	OFF	1723	0	764	0.00	0	68.6	68.6	68.6	15.6	15.6
7-8 AM	1745	0.0	860	0.0	OFF	1745	0	860+	0.00	0	68.6	68.6	68.6	13.7	13.7
8-9 AM	1544	0.0	649	0.0	OFF	1544	0	649	0.00	0	68.8	68.8	68.8	17.8	17.8
9-10 AM	1640	0.0	640	0.0	OFF	1640	0	640	0.00	0	68.7	68.7	68.7	18.0	18.0
10-11 AM	1799	0.0	691	0.0	1499	1799	0	691	5.66	141	68.5	28.8	30.8	17.0	17.0
11A-NOON	1919	0.0	776	0.0	1500	1904	15	791	19.42	501	68.4	12.0	30.8	15.4	15.1
NOON-1PM	2005	0.0	826	0.0	1499	1628	377	1203+	31.39	794	68.2	7.9	30.8	14.4	11.5
1-2 PM	2098	0.0	874	0.0	1499	1500	598	1472+	32.33	818	68.1	7.7	30.8	13.4	11.2
2-3 PM	2363	0.0	1106	0.0	1499	1500	863	1968+	32.31	818	67.8	7.7	30.8	11.2	11.2
3-4 PM	2673	0.0	1362	0.0	OFF	2673	0	1362+	1.10	103	67.4	53.3	53.3	11.2	11.2
4-5 PM	2695	0.0	1468	0.0	OFF	2695	0	1468+	0.00	0	67.4	67.4	67.4	11.2	11.2
5-6 PM	2279	0.0	1194	0.0	OFF	2279	0	1194+	0.00	0	67.9	67.9	67.9	11.2	11.2
6-7 PM	1442	0.0	753	0.0	OFF	1442	0	753	0.00	0	68.9	68.9	68.9	15.8	15.8
7-8 PM	1156	0.0	583	0.0	OFF	1156	0	583	0.00	0	69.3	69.3	69.3	19.1	19.1
8-9 PM	908	0.0	495	0.0	OFF	908	0	495	0.00	0	69.6	69.6	69.6	20.8	20.8
9-10 PM	627	0.0	328	0.0	OFF	627	0	328	0.00	0	69.9	69.9	69.9	24.8	24.8
10-11 PM	461	0.0	273	0.0	OFF	461	0	273	0.00	0	70.2	70.2	70.2	26.3	26.3
11PM-MID	231	0.0	135	0.0	OFF	231	0	135	0.00	0	70.2	70.2	70.2	29.9	29.9

"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	0.0234
MAIN ROUTE WITH WORKS	0.0214
DIVERSION	0.1554

PIA: Personal Injury Accidents

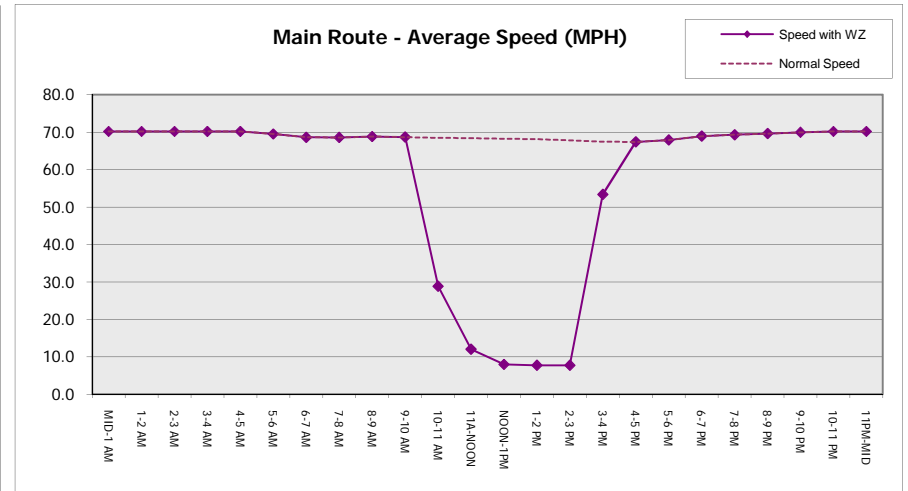
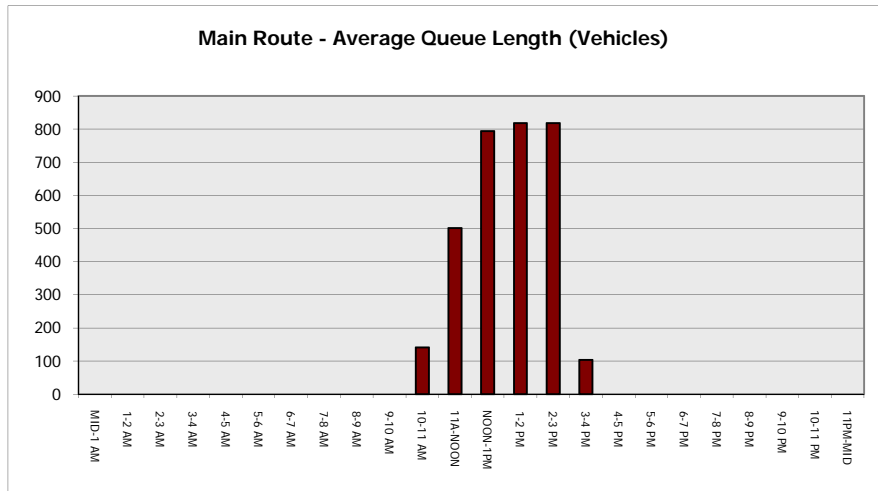
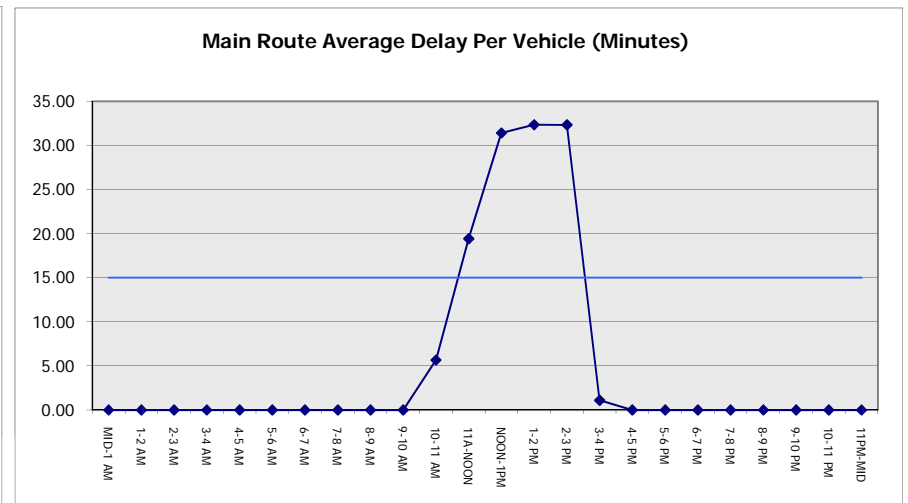
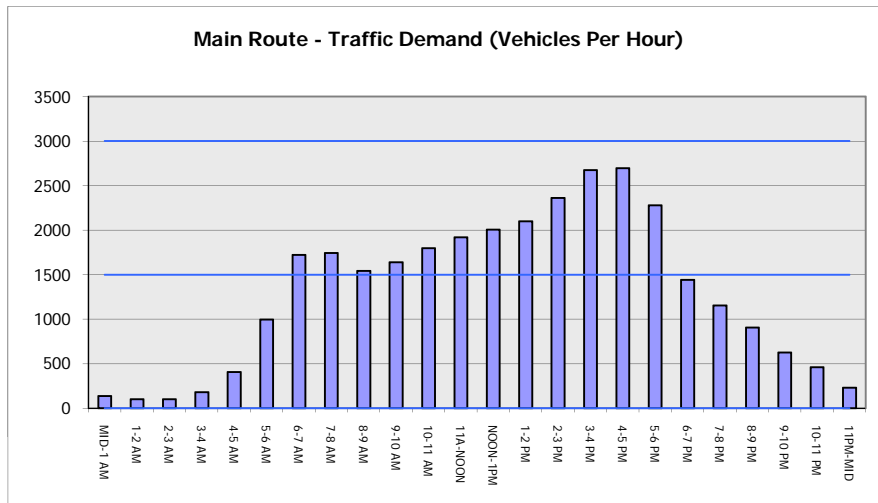
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$53,689
CONGESTED HOURS PER DAY*	4

*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**

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR 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	MAY
	Analyzed for 2009 Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT	
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		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	188	0.0	58	0.0	OFF	188	0	58	0.00	0	70.2	70.2	70.2	32.0	32.0
1-2 AM	120	0.0	50	0.0	OFF	120	0	50	0.00	0	70.2	70.2	70.2	32.2	32.2
2-3 AM	114	0.0	54	0.0	OFF	114	0	54	0.00	0	70.2	70.2	70.2	32.1	32.1
3-4 AM	159	0.0	72	0.0	OFF	159	0	72	0.00	0	70.2	70.2	70.2	31.6	31.6
4-5 AM	316	0.0	177	0.0	OFF	316	0	177	0.00	0	70.2	70.2	70.2	28.8	28.8
5-6 AM	881	0.0	540	0.0	OFF	881	0	540	0.00	0	69.6	69.6	69.6	19.9	19.9
6-7 AM	1751	0.0	1132	0.0	OFF	1751	0	1132+	0.00	0	68.6	68.6	68.6	11.2	11.2
7-8 AM	2058	0.0	1363	0.0	OFF	2058	0	1363+	0.00	0	68.2	68.2	68.2	11.2	11.2
8-9 AM	1495	0.0	917	0.0	OFF	1495	0	917+	0.00	0	68.9	68.9	68.9	12.9	12.9
9-10 AM	1455	0.0	780	0.0	OFF	1455	0	780	0.00	0	68.9	68.9	68.9	15.3	15.3
10-11 AM	1503	0.0	772	0.0	OFF	1499	1503	772	1.17	2	68.9	53.5	30.9	15.5	15.5
11A-NOON	1574	0.0	798	0.0	OFF	1500	1574	798	2.63	42	68.8	41.9	30.8	15.0	15.0
NOON-1PM	1621	0.0	837	0.0	OFF	1500	1621	837+	6.25	138	68.7	27.2	30.8	14.2	14.2
1-2 PM	1731	0.0	896	0.0	OFF	1500	1731	896+	12.60	310	68.6	16.8	30.8	13.0	13.1
2-3 PM	1909	0.0	1025	0.0	OFF	1500	1904	1030+	24.26	623	68.4	9.9	30.8	11.8	11.7
3-4 PM	2228	0.0	1157	0.0	OFF	2228	0	1157+	1.00	93	67.9	54.8	54.8	11.2	11.2
4-5 PM	2255	0.0	1210	0.0	OFF	2255	0	1210+	0.00	0	67.9	67.9	67.9	11.2	11.2
5-6 PM	1979	0.0	1022	0.0	OFF	1979	0	1022+	0.00	0	68.2	68.2	68.2	11.8	11.8
6-7 PM	1366	0.0	685	0.0	OFF	1366	0	685	0.00	0	69.1	69.1	69.1	17.1	17.1
7-8 PM	1061	0.0	491	0.0	OFF	1061	0	491	0.00	0	69.4	69.4	69.4	20.9	20.9
8-9 PM	907	0.0	380	0.0	OFF	907	0	380	0.00	0	69.6	69.6	69.6	23.5	23.5
9-10 PM	687	0.0	283	0.0	OFF	687	0	283	0.00	0	69.9	69.9	69.9	26.0	26.0
10-11 PM	476	0.0	245	0.0	OFF	476	0	245	0.00	0	70.1	70.1	70.1	27.0	27.0
11PM-MID	315	0.0	123	0.0	OFF	315	0	123	0.00	0	70.2	70.2	70.2	30.3	30.3

"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 (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	0.0210
MAIN ROUTE WITH WORKS	0.0205
DIVERSION	0.1432

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$18,010
CONGESTED HOURS PER DAY*	1

*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**

MAY
 Analyzed for 2009
 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT

MON-THUR NORTHBOUND DIRECTION

