

**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

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	149	0.0	55	0.0	OFF	149	0	55	0.00	0	70.2	70.2	70.2	32.1	32.1
1-2 AM	99	0.0	40	0.0	OFF	99	0	40	0.00	0	70.2	70.2	70.2	32.5	32.5
2-3 AM	103	0.0	43	0.0	OFF	103	0	43	0.00	0	70.2	70.2	70.2	32.4	32.4
3-4 AM	188	0.0	51	0.0	OFF	188	0	51	0.00	0	70.2	70.2	70.2	32.2	32.2
4-5 AM	370	0.0	124	0.0	OFF	370	0	124	0.00	0	70.2	70.2	70.2	30.2	30.2
5-6 AM	1003	0.0	276	0.0	OFF	1003	0	276	0.00	0	69.5	69.5	69.5	26.2	26.2
6-7 AM	1889	0.0	626	0.0	OFF	1889	0	626	0.00	0	68.4	68.4	68.4	18.3	18.3
7-8 AM	1822	0.0	739	0.0	OFF	1822	0	739	0.00	0	68.5	68.5	68.5	16.1	16.1
8-9 AM	1529	0.0	577	0.0	OFF	1529	0	577	0.00	0	68.8	68.8	68.8	19.2	19.2
9-10 AM	1502	0.0	526	0.0	OFF	1502	0	526	0.00	0	68.9	68.9	68.9	20.2	20.2
10-11 AM	1629	0.0	594	0.0	1499	1629	0	594	3.06	57	68.7	39.3	30.8	18.9	18.9
11A-NOON	1733	0.0	665	0.0	1500	1733	0	665	9.83	239	68.6	20.2	30.8	17.5	17.5
NOON-1PM	1800	0.0	698	0.0	1500	1762	38	736	19.82	499	68.5	11.8	30.8	16.9	16.1
1-2 PM	1861	0.0	744	0.0	1499	1665	196	940+	27.91	704	68.4	8.8	30.8	16.0	12.7
2-3 PM	2114	0.0	950	0.0	1500	1500	614	1564+	32.33	818	68.1	7.7	30.8	12.6	11.2
3-4 PM	2558	0.0	1125	0.0	OFF	2558	0	1125+	0.97	90	67.6	54.8	54.8	11.2	11.2
4-5 PM	2723	0.0	1249	0.0	OFF	2723	0	1249+	0.00	0	67.4	67.4	67.4	11.2	11.2
5-6 PM	2149	0.0	1130	0.0	OFF	2149	0	1130+	0.00	0	68.1	68.1	68.1	11.2	11.2
6-7 PM	1386	0.0	720	0.0	OFF	1386	0	720	0.00	0	69.0	69.0	69.0	16.5	16.5
7-8 PM	1045	0.0	512	0.0	OFF	1045	0	512	0.00	0	69.4	69.4	69.4	20.4	20.4
8-9 PM	851	0.0	386	0.0	OFF	851	0	386	0.00	0	69.7	69.7	69.7	23.3	23.3
9-10 PM	620	0.0	284	0.0	OFF	620	0	284	0.00	0	70.0	70.0	70.0	26.0	26.0
10-11 PM	475	0.0	209	0.0	OFF	475	0	209	0.00	0	70.2	70.2	70.2	28.0	28.0
11PM-MID	255	0.0	153	0.0	OFF	255	0	153	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 (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	0.0223
MAIN ROUTE WITH WORKS	0.0211
DIVERSION	0.1266

PIA: Personal Injury Accidents

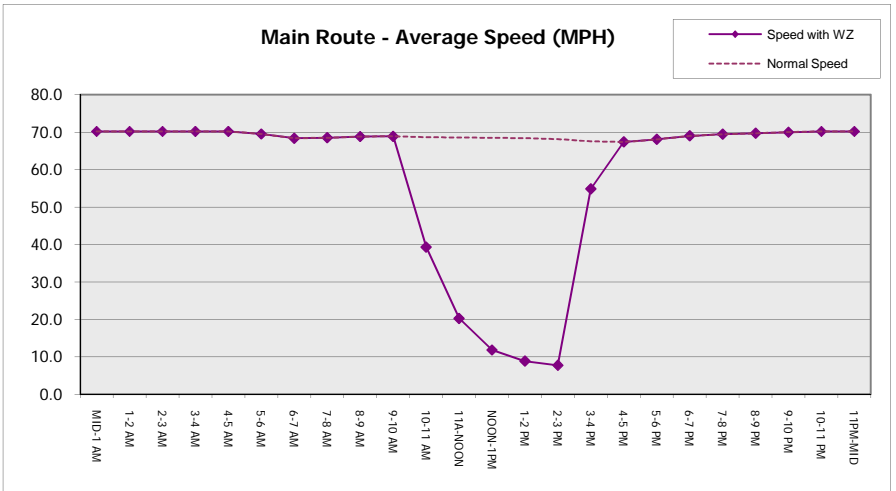
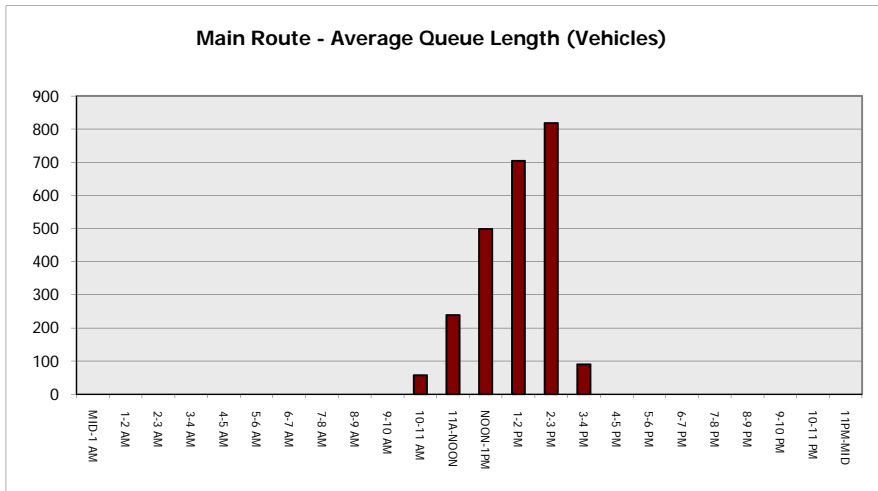
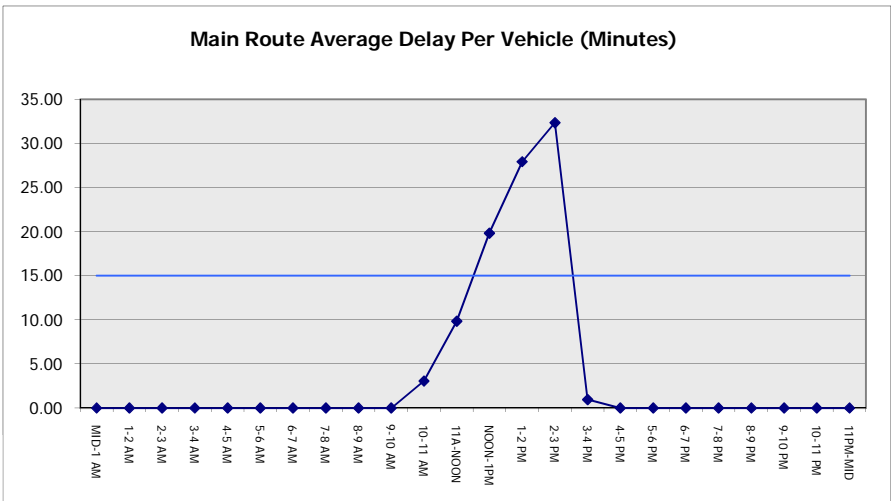
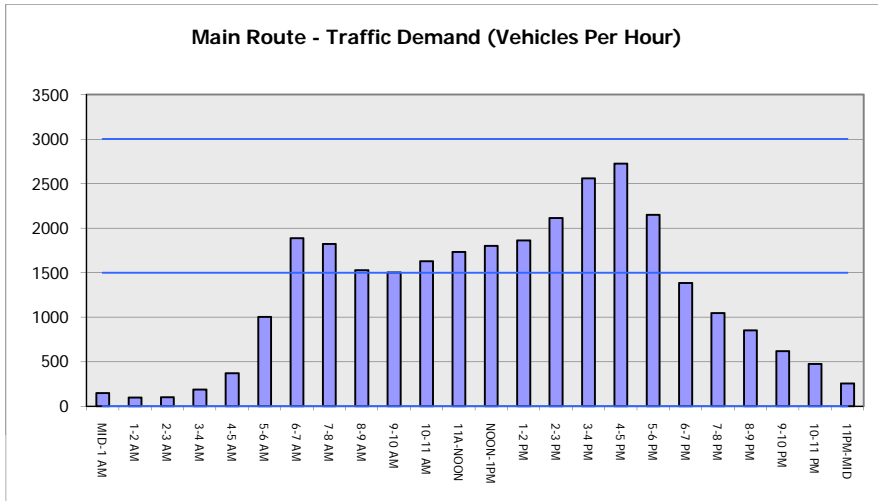
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$37,254
CONGESTED HOURS PER DAY*	3

*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
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	OCTOBER
	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		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	179	0.0	48	0.0	OFF	179	0	48	0.00	0	70.2	70.2	70.2	32.2	32.2
1-2 AM	123	0.0	41	0.0	OFF	123	0	41	0.00	0	70.2	70.2	70.2	32.4	32.4
2-3 AM	124	0.0	42	0.0	OFF	124	0	42	0.00	0	70.2	70.2	70.2	32.4	32.4
3-4 AM	182	0.0	63	0.0	OFF	182	0	63	0.00	0	70.2	70.2	70.2	31.9	31.9
4-5 AM	334	0.0	145	0.0	OFF	334	0	145	0.00	0	70.2	70.2	70.2	29.7	29.7
5-6 AM	863	0.0	398	0.0	OFF	863	0	398	0.00	0	69.7	69.7	69.7	23.0	23.0
6-7 AM	1928	0.0	872	0.0	OFF	1928	0	872+	0.00	0	68.3	68.3	68.3	13.4	13.4
7-8 AM	2456	0.0	1200	0.0	OFF	2456	0	1200+	0.00	0	67.7	67.7	67.7	11.2	11.2
8-9 AM	1644	0.0	850	0.0	OFF	1644	0	850+	0.00	0	68.7	68.7	68.7	13.8	13.8
9-10 AM	1540	0.0	652	0.0	OFF	1540	0	652	0.00	0	68.8	68.8	68.8	17.8	17.8
10-11 AM	1549	0.0	629	0.0	OFF	1499	1549	629	1.90	22	68.8	47.0	30.8	18.2	18.2
11A-NOON	1625	0.0	651	0.0	OFF	1500	1625	651	5.07	108	68.7	30.7	30.8	17.8	17.8
NOON-1PM	1661	0.0	665	0.0	OFF	1500	1661	665	10.58	253	68.7	19.2	30.8	17.5	17.5
1-2 PM	1694	0.0	678	0.0	OFF	1499	1691	682	17.02	422	68.6	13.4	30.8	17.3	17.2
2-3 PM	2008	0.0	768	0.0	OFF	1500	1780	997+	27.35	697	68.2	8.9	31.2	15.5	13.0
3-4 PM	2317	0.0	929	0.0	OFF	2317	0	929+	0.95	88	67.9	55.3	55.3	12.8	12.8
4-5 PM	2341	0.0	935	0.0	OFF	2341	0	935+	0.00	0	67.8	67.8	67.8	12.7	12.7
5-6 PM	2108	0.0	852	0.0	OFF	2108	0	852+	0.00	0	68.1	68.1	68.1	13.8	13.8
6-7 PM	1393	0.0	562	0.0	OFF	1393	0	562	0.00	0	69.0	69.0	69.0	19.5	19.5
7-8 PM	954	0.0	366	0.0	OFF	954	0	366	0.00	0	69.6	69.6	69.6	23.8	23.8
8-9 PM	799	0.0	257	0.0	OFF	799	0	257	0.00	0	69.7	69.7	69.7	26.7	26.7
9-10 PM	619	0.0	218	0.0	OFF	619	0	218	0.00	0	70.0	70.0	70.0	27.8	27.8
10-11 PM	420	0.0	185	0.0	OFF	420	0	185	0.00	0	70.2	70.2	70.2	28.6	28.6
11PM-MID	283	0.0	111	0.0	OFF	283	0	111	0.00	0	70.2	70.2	70.2	30.6	30.6

"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	0.0218
MAIN ROUTE WITH WORKS	0.0211
DIVERSION	0.1173

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$23,680
CONGESTED HOURS PER DAY*	2

*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
MON-THUR NORTHBOUND DIRECTION

