

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

SATURDAY 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	229	0.0	100	0.0	OFF	229	0	100	0.00	0	70.2	70.2	70.2	30.9	30.9
1-2 AM	155	0.0	61	0.0	OFF	155	0	61	0.00	0	70.2	70.2	70.2	31.9	31.9
2-3 AM	116	0.0	58	0.0	OFF	116	0	58	0.00	0	70.2	70.2	70.2	32.0	32.0
3-4 AM	149	0.0	44	0.0	OFF	149	0	44	0.00	0	70.2	70.2	70.2	32.4	32.4
4-5 AM	175	0.0	73	0.0	OFF	175	0	73	0.00	0	70.2	70.2	70.2	31.6	31.6
5-6 AM	342	0.0	90	0.0	OFF	342	0	90	0.00	0	70.2	70.2	70.2	31.2	31.2
6-7 AM	656	0.0	152	0.0	OFF	656	0	152	0.00	0	69.9	69.9	69.9	29.5	29.5
7-8 AM	947	0.0	230	0.0	OFF	947	0	230	0.00	0	69.6	69.6	69.6	27.4	27.4
8-9 AM	1273	0.0	359	0.0	1499	1273	0	359	0.80	0	69.2	57.8	36.4	24.0	24.0
9-10 AM	1570	0.0	483	0.0	1499	1570	0	483	1.69	17	68.8	48.7	30.8	21.0	21.0
10-11 AM	1847	0.0	656	0.0	1500	1847	0	656	9.12	233	68.4	21.3	30.8	17.7	17.7
11A-NOON	1897	0.0	699	0.0	1499	1798	99	798	22.87	580	68.4	10.4	30.8	16.9	15.0
NOON-1PM	2037	0.0	782	0.0	1500	1605	433	1215+	31.68	802	68.2	7.9	31.1	15.3	11.4
1-2 PM	1833	0.0	740	0.0	1499	1495	338	1078+	32.31	817	68.4	7.8	30.8	16.1	11.2
2-3 PM	1965	0.0	766	0.0	1499	1499	467	1232+	32.33	818	68.3	7.7	30.8	15.6	11.2
3-4 PM	1882	0.0	775	0.0	1499	1500	382	1157+	32.35	818	68.4	7.7	30.8	15.4	11.2
4-5 PM	1776	0.0	726	0.0	1499	1449	327	1053+	31.67	801	68.5	7.9	30.8	16.3	11.4
5-6 PM	1481	0.0	693	0.0	1499	1288	193	886+	25.99	655	68.9	9.4	30.8	17.0	13.5
6-7 PM	1416	0.0	600	0.0	OFF	1416	0	600	0.37	33	69.0	63.2	63.2	18.8	18.8
7-8 PM	1111	0.0	483	0.0	OFF	1111	0	483	0.00	0	69.4	69.4	69.4	21.0	21.0
8-9 PM	994	0.0	427	0.0	OFF	994	0	427	0.00	0	69.5	69.5	69.5	22.2	22.2
9-10 PM	748	0.0	316	0.0	OFF	748	0	316	0.00	0	69.8	69.8	69.8	25.2	25.2
10-11 PM	493	0.0	216	0.0	OFF	493	0	216	0.00	0	70.1	70.1	70.1	27.8	27.8
11PM-MID	371	0.0	155	0.0	OFF	371	0	155	0.00	0	70.2	70.2	70.2	29.4	29.4

"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	0.0190
MAIN ROUTE WITH WORKS	0.0164
DIVERSION	0.1133

PIA: Personal Injury Accidents

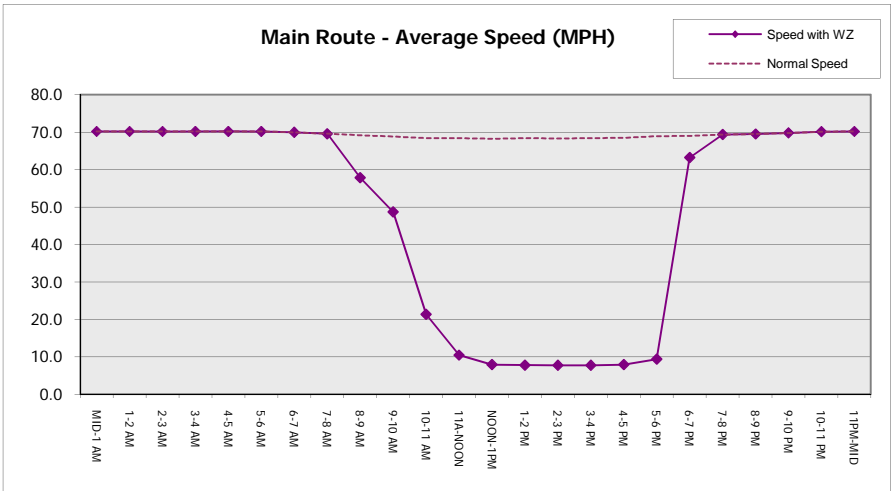
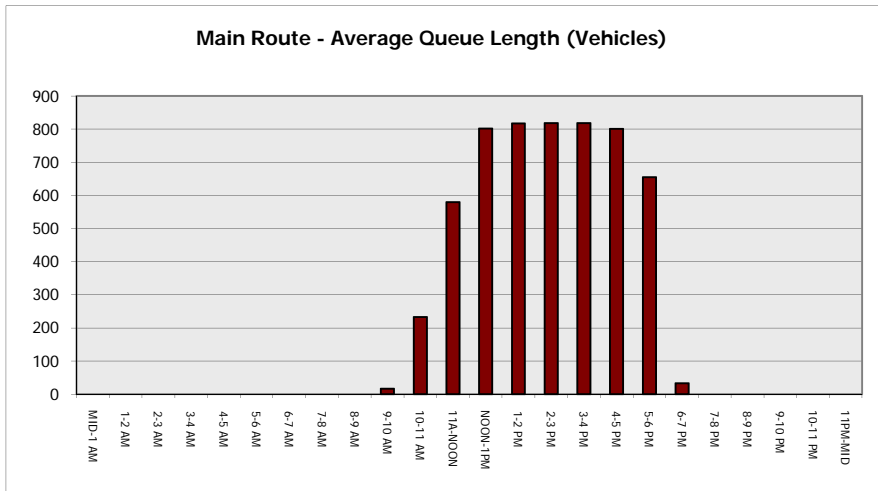
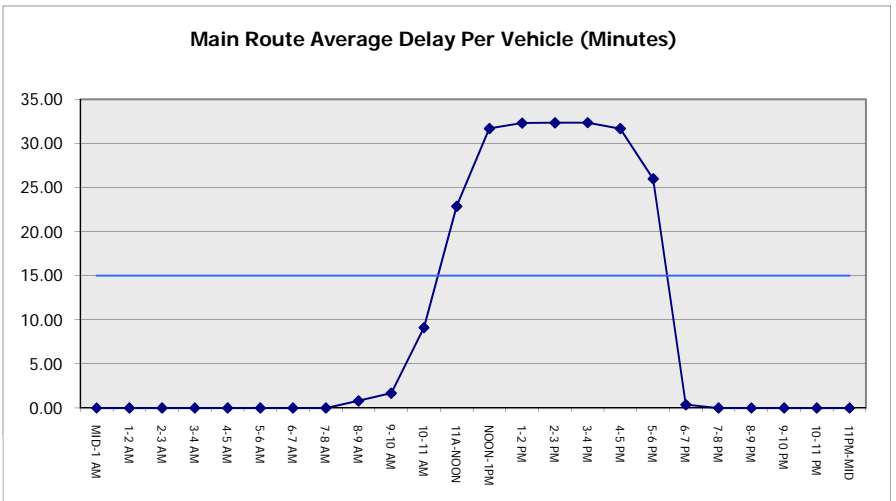
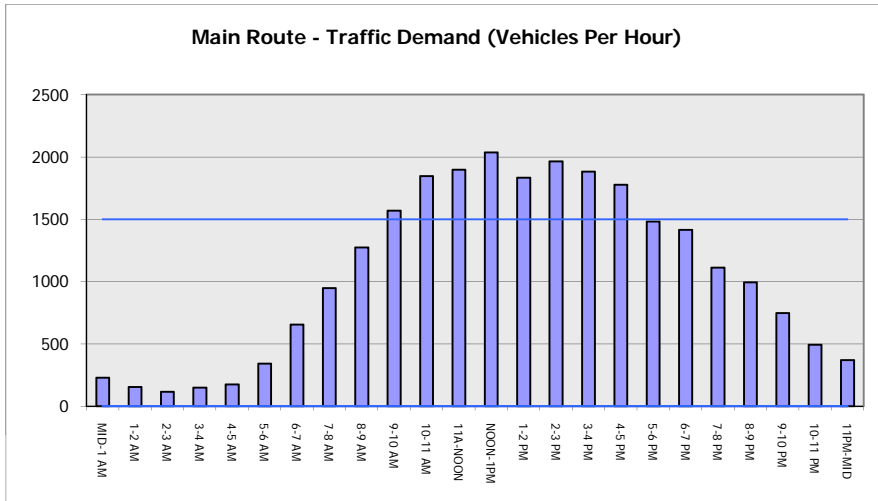
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$125,891
CONGESTED HOURS PER DAY*	7

*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
SATURDAY 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

SATURDAY NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			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	338	0.0	84	0.0	OFF	338	0	84	0.00	0	70.2	70.2	70.2	31.3	31.3
1-2 AM	203	0.0	65	0.0	OFF	203	0	65	0.00	0	70.2	70.2	70.2	31.8	31.8
2-3 AM	195	0.0	61	0.0	OFF	195	0	61	0.00	0	70.2	70.2	70.2	31.9	31.9
3-4 AM	163	0.0	49	0.0	OFF	163	0	49	0.00	0	70.2	70.2	70.2	32.2	32.2
4-5 AM	195	0.0	63	0.0	OFF	195	0	63	0.00	0	70.2	70.2	70.2	31.9	31.9
5-6 AM	325	0.0	146	0.0	OFF	325	0	146	0.00	0	70.2	70.2	70.2	29.7	29.7
6-7 AM	608	0.0	255	0.0	OFF	608	0	255	0.00	0	70.0	70.0	70.0	26.8	26.8
7-8 AM	898	0.0	354	0.0	OFF	898	0	354	0.00	0	69.6	69.6	69.6	24.2	24.2
8-9 AM	1274	0.0	540	0.0	1499	1274	0	540	0.80	0	69.2	57.8	36.4	19.9	19.9
9-10 AM	1612	0.0	672	0.0	1499	1612	0	672	2.31	36	68.7	44.0	30.8	17.4	17.4
10-11 AM	1900	0.0	715	0.0	1500	1900	0	715	11.51	300	68.4	18.0	30.8	16.5	16.5
11A-NOON	1991	0.0	748	0.0	1499	1806	185	933+	27.14	691	68.2	9.0	30.8	15.9	13.0
NOON-1PM	1991	0.0	728	0.0	1500	1501	490	1218+	32.33	818	68.2	7.7	30.8	16.3	11.2
1-2 PM	1922	0.0	668	0.0	1500	1493	429	1097+	32.26	816	68.4	7.8	30.8	17.5	11.2
2-3 PM	1790	0.0	649	0.0	1500	1415	376	1024+	30.46	769	68.5	8.1	30.8	17.8	11.8
3-4 PM	1809	0.0	614	0.0	1500	1470	339	952+	28.24	711	68.5	8.7	30.8	18.5	12.6
4-5 PM	1758	0.0	565	0.0	1499	1438	320	885+	26.72	671	68.6	9.1	30.8	19.4	13.2
5-6 PM	1575	0.0	518	0.0	1499	1331	244	762	21.96	549	68.7	10.8	30.8	20.4	15.6
6-7 PM	1409	0.0	457	0.0	OFF	1409	0	457	0.27	23	69.0	64.7	64.7	21.5	21.5
7-8 PM	1155	0.0	375	0.0	OFF	1155	0	375	0.00	0	69.3	69.3	69.3	23.6	23.6
8-9 PM	878	0.0	287	0.0	OFF	878	0	287	0.00	0	69.6	69.6	69.6	25.9	25.9
9-10 PM	724	0.0	230	0.0	OFF	724	0	230	0.00	0	69.9	69.9	69.9	27.4	27.4
10-11 PM	526	0.0	190	0.0	OFF	526	0	190	0.00	0	70.0	70.0	70.0	28.5	28.5
11PM-MID	411	0.0	127	0.0	OFF	411	0	127	0.00	0	70.2	70.2	70.2	30.2	30.2

"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	0.0192
MAIN ROUTE WITH WORKS	0.0164
DIVERSION	0.1097

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$121,948
CONGESTED HOURS PER DAY*	7

*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
SATURDAY NORTHBOUND DIRECTION

