

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
CONTINUOUS (24 HOUR) 1 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	3000	186	0	75	0.36	0	70.2	64.4	49.7	31.5	31.5
1-2 AM	107	0.0	54	0.0	3000	107	0	54	0.36	0	70.2	64.4	49.7	32.1	32.1
2-3 AM	103	0.0	46	0.0	3000	103	0	46	0.36	0	70.2	64.4	49.7	32.3	32.3
3-4 AM	182	0.0	52	0.0	3000	182	0	52	0.36	0	70.2	64.4	49.7	32.2	32.2
4-5 AM	298	0.0	118	0.0	3000	298	0	118	0.36	0	70.2	64.4	49.7	30.4	30.4
5-6 AM	754	0.0	254	0.0	3000	754	0	254	0.35	0	69.8	64.1	49.7	26.8	26.8
6-7 AM	1655	0.0	570	0.0	3000	1655	0	570	0.34	0	68.7	63.4	49.7	19.3	19.3
7-8 AM	1790	0.0	696	0.0	3000	1790	0	696	0.34	0	68.5	63.3	49.7	16.9	16.9
8-9 AM	1583	0.0	536	0.0	3000	1583	0	536	0.34	0	68.7	63.5	49.7	20.0	20.0
9-10 AM	1617	0.0	571	0.0	3000	1617	0	571	0.34	0	68.7	63.5	49.7	19.3	19.3
10-11 AM	1818	0.0	690	0.0	3000	1818	0	690	0.34	0	68.5	63.3	49.7	17.0	17.0
11A-NOON	1962	0.0	795	0.0	3000	1962	0	795	0.34	0	68.3	63.2	49.7	15.0	15.0
NOON-1PM	2159	0.0	865	0.0	3000	2159	0	865+	0.33	0	68.1	63.0	49.7	13.6	13.6
1-2 PM	2197	0.0	943	0.0	3000	2197	0	943+	0.33	0	68.0	63.0	49.7	12.7	12.7
2-3 PM	2531	0.0	1119	0.0	3000	2531	0	1119+	0.42	0	67.6	61.4	46.1	11.2	11.2
3-4 PM	2878	0.0	1328	0.0	2999	2878	0	1328+	0.65	0	67.1	58.2	39.2	11.2	11.2
4-5 PM	3066	0.0	1297	0.0	2999	3066	0	1297+	1.40	38	66.9	50.2	37.3	11.2	11.2
5-6 PM	2705	0.0	1107	0.0	3000	2705	0	1107+	0.78	14	67.4	56.8	42.1	11.2	11.3
6-7 PM	1902	0.0	825	0.0	3000	1902	0	825+	0.34	0	68.4	63.2	49.7	14.4	14.4
7-8 PM	1388	0.0	629	0.0	3000	1388	0	629	0.34	0	69.0	63.7	49.7	18.2	18.2
8-9 PM	1059	0.0	493	0.0	3000	1059	0	493	0.35	0	69.4	63.9	49.7	20.8	20.8
9-10 PM	825	0.0	388	0.0	3000	825	0	388	0.35	0	69.7	64.1	49.7	23.2	23.2
10-11 PM	597	0.0	284	0.0	3000	597	0	284	0.36	0	70.0	64.3	49.7	26.0	26.0
11PM-MID	395	0.0	209	0.0	3000	395	0	209	0.36	0	70.2	64.4	49.7	28.0	28.0

+ 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	0.0252
MAIN ROUTE WITH WORKS	0.0230
DIVERSION	0.1325

PIA: Personal Injury Accidents

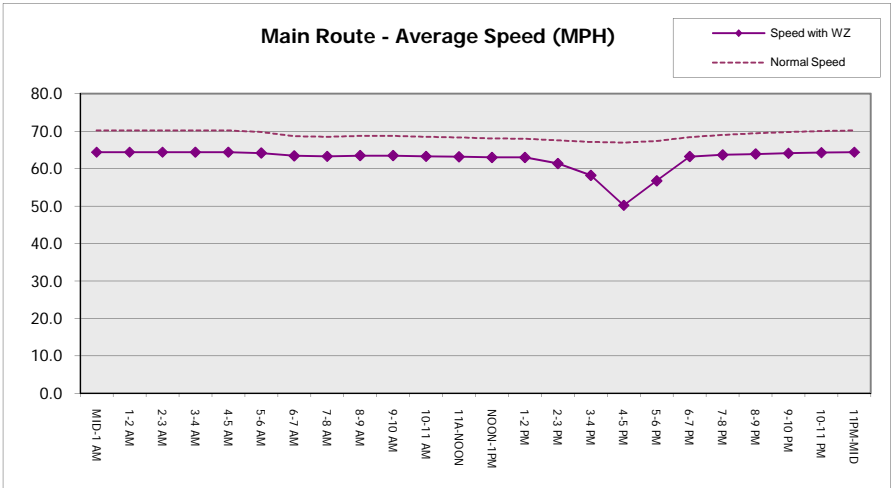
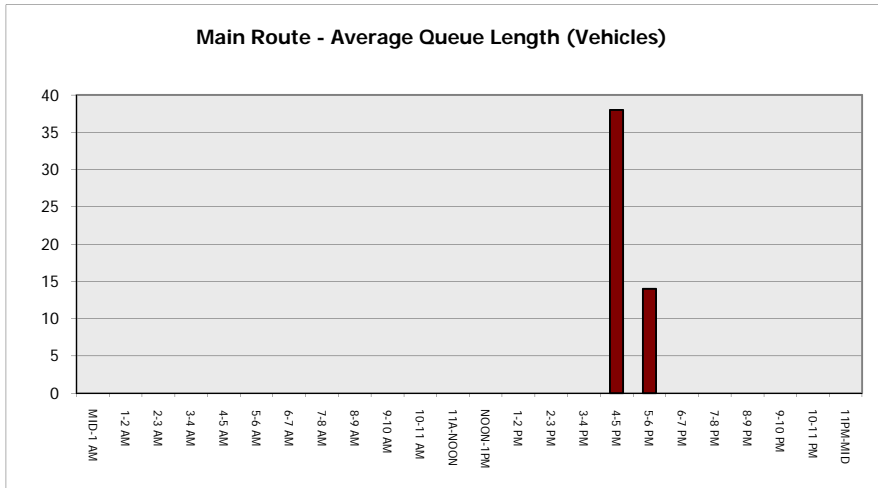
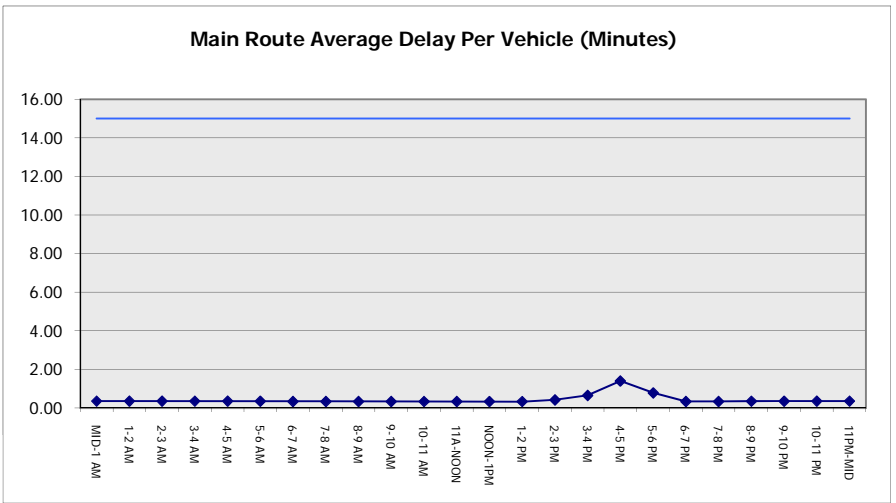
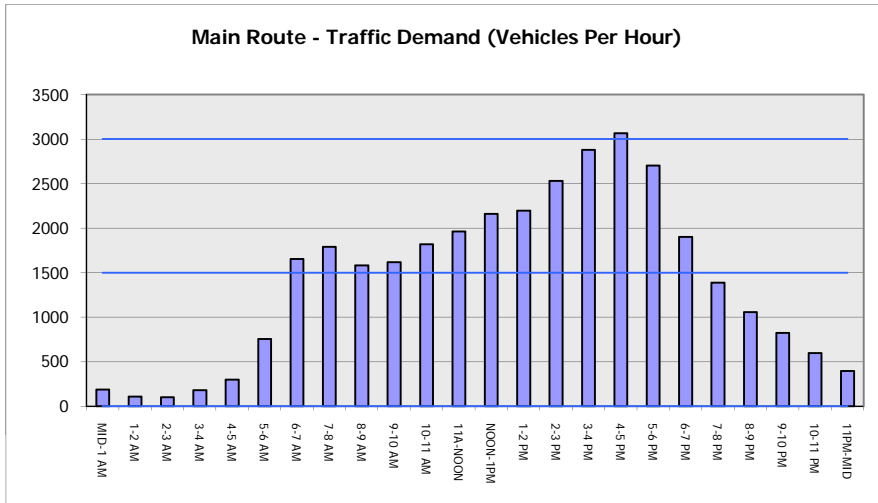
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$3,848
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 1 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) CONTINUOUS (24 HOUR) 1 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	OCTOBER Analyzed for 2009 Construction Season
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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		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	298	0.0	59	0.0	3000	298	0	59	0.36	0	70.2	64.4	49.7	32.0	32.0
1-2 AM	141	0.0	56	0.0	3000	141	0	56	0.36	0	70.2	64.4	49.7	32.0	32.0
2-3 AM	135	0.0	57	0.0	3000	135	0	57	0.36	0	70.2	64.4	49.7	32.0	32.0
3-4 AM	202	0.0	71	0.0	3000	202	0	71	0.36	0	70.2	64.4	49.7	31.7	31.7
4-5 AM	307	0.0	143	0.0	3000	307	0	143	0.36	0	70.2	64.4	49.7	29.7	29.7
5-6 AM	705	0.0	344	0.0	3000	705	0	344	0.36	0	69.9	64.2	49.7	24.4	24.4
6-7 AM	1676	0.0	791	0.0	3000	1676	0	791	0.34	0	68.6	63.4	49.7	15.1	15.1
7-8 AM	2319	0.0	1108	0.0	3000	2319	0	1108+	0.33	0	67.9	62.8	49.7	11.2	11.2
8-9 AM	1819	0.0	802	0.0	3000	1819	0	802+	0.34	0	68.5	63.3	49.7	14.9	14.9
9-10 AM	1958	0.0	722	0.0	3000	1958	0	722	0.34	0	68.3	63.2	49.7	16.5	16.5
10-11 AM	2221	0.0	750	0.0	3000	2221	0	750	0.33	0	68.0	63.0	49.7	15.9	15.9
11A-NOON	2324	0.0	806	0.0	3000	2324	0	806+	0.33	0	67.9	62.8	49.7	14.8	14.8
NOON-1PM	2450	0.0	809	0.0	3000	2450	0	809+	0.37	0	67.7	62.2	48.1	14.7	14.7
1-2 PM	2608	0.0	866	0.0	3000	2608	0	866+	0.47	0	67.5	60.6	44.3	13.5	13.5
2-3 PM	2882	0.0	942	0.0	2999	2882	0	942+	0.65	0	67.1	58.1	39.2	12.7	12.7
3-4 PM	3408	0.0	1076	0.0	2999	3408	0	1076+	3.73	189	66.5	35.4	37.3	11.2	11.2
4-5 PM	3344	0.0	1067	0.0	2999	3344	0	1067+	11.11	584	66.6	18.4	37.3	11.2	11.2
5-6 PM	3288	0.0	992	0.0	3000	3288	0	992+	17.23	915	66.6	13.4	37.3	12.2	12.3
6-7 PM	2725	0.0	771	0.0	2999	2725	0	771	17.65	935	67.4	13.2	37.3	15.5	15.6
7-8 PM	2235	0.0	558	0.0	2999	2234	0	558	6.65	412	67.9	26.1	42.7	19.6	19.6
8-9 PM	1749	0.0	367	0.0	3000	1749	0	367	0.34	0	68.6	63.3	49.7	23.8	23.8
9-10 PM	1322	0.0	299	0.0	3000	1322	0	299	0.35	0	69.1	63.7	49.7	25.6	25.6
10-11 PM	887	0.0	239	0.0	3000	887	0	239	0.35	0	69.6	64.0	49.7	27.2	27.2
11PM-MID	528	0.0	185	0.0	3000	528	0	185	0.36	0	70.0	64.3	49.7	28.6	28.6

+ 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	0.0310
MAIN ROUTE WITH WORKS	0.0283
DIVERSION	0.1318

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$40,621
CONGESTED HOURS PER DAY*	2

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 CONTINUOUS (24 HOUR) 1 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

