

**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

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	3000	149	0	55	0.36	0	70.2	64.4	49.7	32.1	32.1
1-2 AM	99	0.0	40	0.0	3000	99	0	40	0.36	0	70.2	64.4	49.7	32.5	32.5
2-3 AM	103	0.0	43	0.0	3000	103	0	43	0.36	0	70.2	64.4	49.7	32.4	32.4
3-4 AM	188	0.0	51	0.0	3000	188	0	51	0.36	0	70.2	64.4	49.7	32.2	32.2
4-5 AM	370	0.0	124	0.0	3000	370	0	124	0.36	0	70.2	64.4	49.7	30.2	30.2
5-6 AM	1003	0.0	276	0.0	3000	1003	0	276	0.35	0	69.5	64.0	49.7	26.2	26.2
6-7 AM	1889	0.0	626	0.0	3000	1889	0	626	0.34	0	68.4	63.2	49.7	18.3	18.3
7-8 AM	1822	0.0	739	0.0	3000	1822	0	739	0.34	0	68.5	63.3	49.7	16.1	16.1
8-9 AM	1529	0.0	577	0.0	3000	1529	0	577	0.34	0	68.8	63.5	49.7	19.2	19.2
9-10 AM	1502	0.0	526	0.0	3000	1502	0	526	0.34	0	68.9	63.5	49.7	20.2	20.2
10-11 AM	1629	0.0	594	0.0	3000	1629	0	594	0.34	0	68.7	63.5	49.7	18.9	18.9
11A-NOON	1733	0.0	665	0.0	3000	1733	0	665	0.34	0	68.6	63.3	49.7	17.5	17.5
NOON-1PM	1800	0.0	698	0.0	3000	1800	0	698	0.34	0	68.5	63.3	49.7	16.9	16.9
1-2 PM	1861	0.0	744	0.0	3000	1861	0	744	0.34	0	68.4	63.2	49.7	16.0	16.0
2-3 PM	2114	0.0	950	0.0	3000	2114	0	950+	0.33	0	68.1	63.0	49.7	12.6	12.6
3-4 PM	2558	0.0	1125	0.0	3000	2558	0	1125+	0.44	0	67.6	61.1	45.5	11.2	11.2
4-5 PM	2723	0.0	1249	0.0	3000	2723	0	1249+	0.55	0	67.4	59.6	42.0	11.2	11.2
5-6 PM	2149	0.0	1130	0.0	3000	2149	0	1130+	0.33	0	68.1	63.0	49.7	11.2	11.2
6-7 PM	1386	0.0	720	0.0	3000	1386	0	720	0.34	0	69.0	63.7	49.7	16.5	16.5
7-8 PM	1045	0.0	512	0.0	3000	1045	0	512	0.35	0	69.4	63.9	49.7	20.4	20.4
8-9 PM	851	0.0	386	0.0	3000	851	0	386	0.35	0	69.7	64.1	49.7	23.3	23.3
9-10 PM	620	0.0	284	0.0	3000	620	0	284	0.36	0	70.0	64.3	49.7	26.0	26.0
10-11 PM	475	0.0	209	0.0	3000	475	0	209	0.36	0	70.2	64.4	49.7	28.0	28.0
11PM-MID	255	0.0	153	0.0	3000	255	0	153	0.36	0	70.2	64.4	49.7	29.5	29.5

+ 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	0.0203
DIVERSION	0.1185

PIA: Personal Injury Accidents

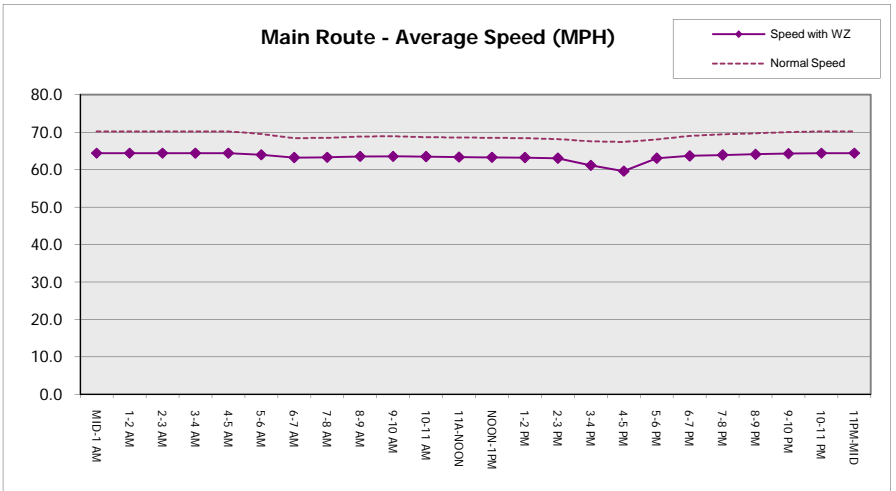
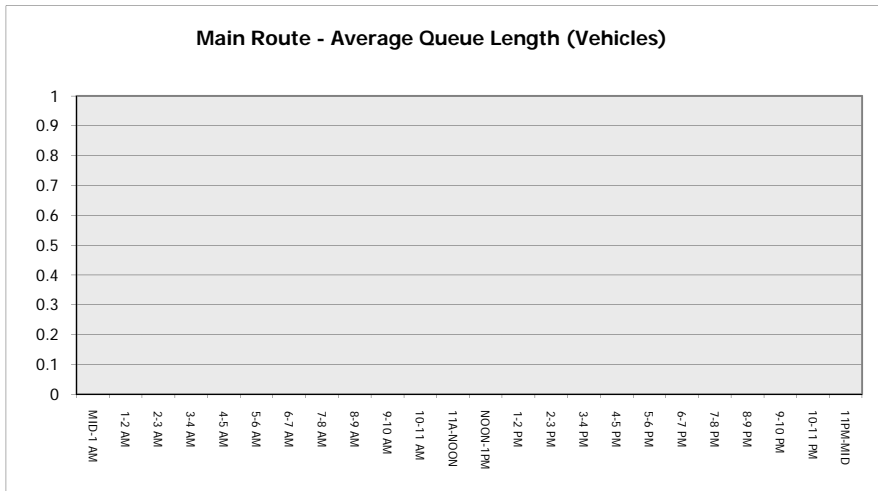
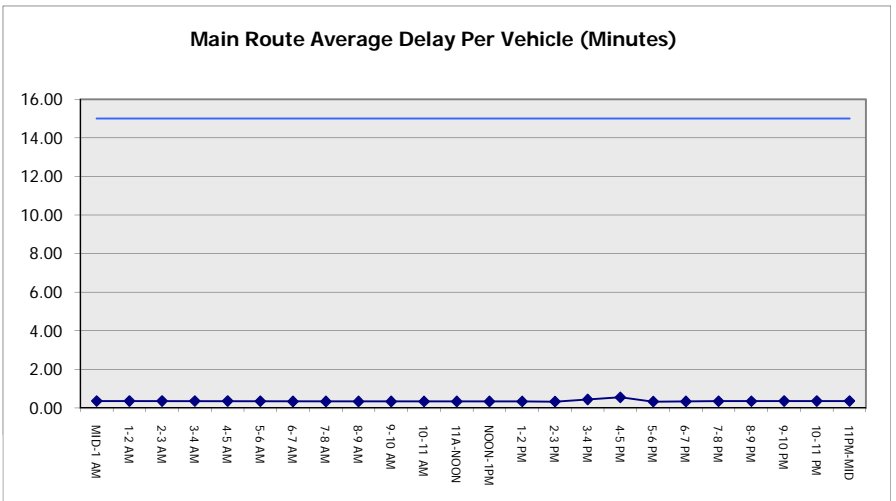
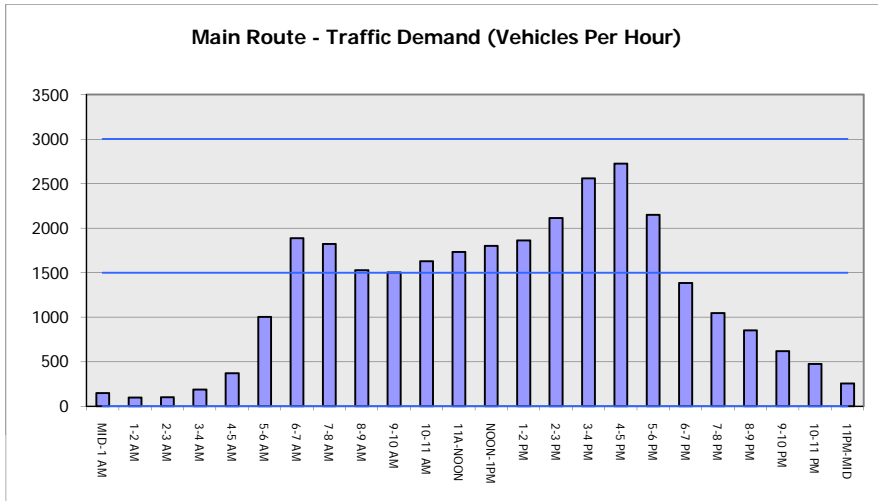
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$2,108
CONGESTED HOURS PER DAY*	0

*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
MON-THUR 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

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	3000	179	0	48	0.36	0	70.2	64.4	49.7	32.2	32.2
1-2 AM	123	0.0	41	0.0	3000	123	0	41	0.36	0	70.2	64.4	49.7	32.4	32.4
2-3 AM	124	0.0	42	0.0	3000	124	0	42	0.36	0	70.2	64.4	49.7	32.4	32.4
3-4 AM	182	0.0	63	0.0	3000	182	0	63	0.36	0	70.2	64.4	49.7	31.9	31.9
4-5 AM	334	0.0	145	0.0	3000	334	0	145	0.36	0	70.2	64.4	49.7	29.7	29.7
5-6 AM	863	0.0	398	0.0	3000	863	0	398	0.35	0	69.7	64.1	49.7	23.0	23.0
6-7 AM	1928	0.0	872	0.0	3000	1928	0	872+	0.34	0	68.3	63.2	49.7	13.4	13.4
7-8 AM	2456	0.0	1200	0.0	3000	2456	0	1200+	0.37	0	67.7	62.1	47.9	11.2	11.2
8-9 AM	1644	0.0	850	0.0	3000	1644	0	850+	0.34	0	68.7	63.4	49.7	13.8	13.8
9-10 AM	1540	0.0	652	0.0	3000	1540	0	652	0.34	0	68.8	63.5	49.7	17.8	17.8
10-11 AM	1549	0.0	629	0.0	3000	1549	0	629	0.34	0	68.8	63.5	49.7	18.2	18.2
11A-NOON	1625	0.0	651	0.0	3000	1625	0	651	0.34	0	68.7	63.5	49.7	17.8	17.8
NOON-1PM	1661	0.0	665	0.0	3000	1661	0	665	0.34	0	68.7	63.4	49.7	17.5	17.5
1-2 PM	1694	0.0	678	0.0	3000	1694	0	678	0.34	0	68.6	63.4	49.7	17.3	17.3
2-3 PM	2008	0.0	768	0.0	3000	2008	0	768	0.33	0	68.2	63.1	49.7	15.5	15.5
3-4 PM	2317	0.0	929	0.0	3000	2317	0	929+	0.33	0	67.9	62.8	49.7	12.8	12.8
4-5 PM	2341	0.0	935	0.0	3000	2341	0	935+	0.33	0	67.8	62.8	49.7	12.7	12.7
5-6 PM	2108	0.0	852	0.0	3000	2108	0	852+	0.33	0	68.1	63.0	49.7	13.8	13.8
6-7 PM	1393	0.0	562	0.0	3000	1393	0	562	0.34	0	69.0	63.7	49.7	19.5	19.5
7-8 PM	954	0.0	366	0.0	3000	954	0	366	0.35	0	69.6	64.0	49.7	23.8	23.8
8-9 PM	799	0.0	257	0.0	3000	799	0	257	0.35	0	69.7	64.1	49.7	26.7	26.7
9-10 PM	619	0.0	218	0.0	3000	619	0	218	0.36	0	70.0	64.3	49.7	27.8	27.8
10-11 PM	420	0.0	185	0.0	3000	420	0	185	0.36	0	70.2	64.4	49.7	28.6	28.6
11PM-MID	283	0.0	111	0.0	3000	283	0	111	0.36	0	70.2	64.4	49.7	30.6	30.6

+ 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	0.0199
DIVERSION	0.1151

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,909
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
MON-THUR NORTHBOUND DIRECTION

