

USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
OFF-PEAK DAY 1 LANE CLOSURE
DIVERSION ROUTE: BUS 51 - STH 52

MAY
 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	189	0.0	80	0.0	OFF	189	0	80	0.00	0	70.2	70.2	70.2	31.4	31.4
1-2 AM	110	0.0	59	0.0	OFF	110	0	59	0.00	0	70.2	70.2	70.2	32.0	32.0
2-3 AM	107	0.0	46	0.0	OFF	107	0	46	0.00	0	70.2	70.2	70.2	32.3	32.3
3-4 AM	173	0.0	58	0.0	OFF	173	0	58	0.00	0	70.2	70.2	70.2	32.0	32.0
4-5 AM	343	0.0	148	0.0	OFF	343	0	148	0.00	0	70.2	70.2	70.2	29.6	29.6
5-6 AM	757	0.0	325	0.0	OFF	757	0	325	0.00	0	69.8	69.8	69.8	24.9	24.9
6-7 AM	1702	0.0	702	0.0	OFF	1702	0	702	0.00	0	68.6	68.6	68.6	16.8	16.8
7-8 AM	1767	0.0	817	0.0	OFF	1767	0	817+	0.00	0	68.6	68.6	68.6	14.5	14.5
8-9 AM	1457	0.0	645	0.0	OFF	1457	0	645	0.00	0	68.9	68.9	68.9	17.9	17.9
9-10 AM	1492	0.0	669	0.0	OFF	1492	0	669	0.00	0	68.9	68.9	68.9	17.5	17.5
10-11 AM	1708	0.0	765	0.0	3000	1708	0	765	0.34	0	68.6	63.3	49.7	15.6	15.6
11A-NOON	1814	0.0	908	0.0	3000	1814	0	908+	0.34	0	68.5	63.3	49.7	12.9	12.9
NOON-1PM	1918	0.0	983	0.0	3000	1918	0	983+	0.34	0	68.4	63.2	49.7	12.4	12.4
1-2 PM	1996	0.0	1011	0.0	3000	1996	0	1011+	0.33	0	68.2	63.2	49.7	12.0	12.0
2-3 PM	2275	0.0	1222	0.0	3000	2275	0	1222+	0.33	0	67.9	62.9	49.7	11.2	11.2
3-4 PM	2616	0.0	1408	0.0	OFF	2616	0	1408+	0.00	0	67.5	67.5	67.5	11.2	11.2
4-5 PM	2763	0.0	1456	0.0	OFF	2763	0	1456+	0.00	0	67.3	67.3	67.3	11.2	11.2
5-6 PM	2558	0.0	1218	0.0	OFF	2558	0	1218+	0.00	0	67.6	67.6	67.6	11.2	11.2
6-7 PM	1842	0.0	868	0.0	OFF	1842	0	868+	0.00	0	68.4	68.4	68.4	13.5	13.5
7-8 PM	1468	0.0	705	0.0	OFF	1468	0	705	0.00	0	68.9	68.9	68.9	16.8	16.8
8-9 PM	1233	0.0	603	0.0	OFF	1233	0	603	0.00	0	69.2	69.2	69.2	18.7	18.7
9-10 PM	855	0.0	449	0.0	OFF	855	0	449	0.00	0	69.7	69.7	69.7	21.7	21.7
10-11 PM	630	0.0	353	0.0	OFF	630	0	353	0.00	0	69.9	69.9	69.9	24.2	24.2
11PM-MID	377	0.0	212	0.0	OFF	377	0	212	0.00	0	70.2	70.2	70.2	27.9	27.9

"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 (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	0.0240
MAIN ROUTE WITH WORKS	0.0234
DIVERSION	0.1493

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$654
CONGESTED HOURS PER DAY*	0

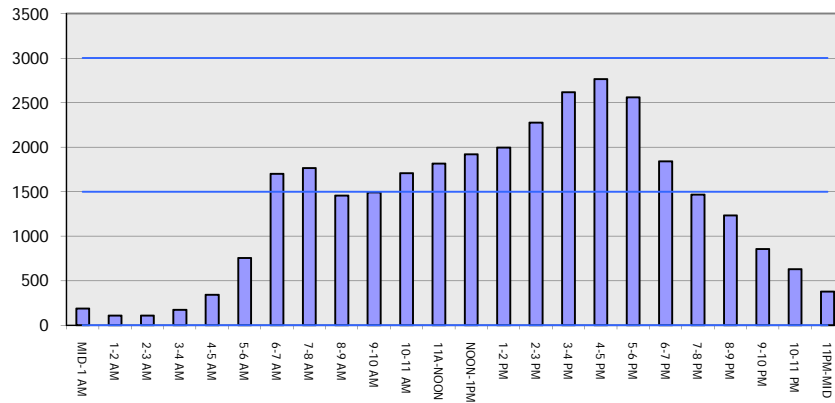
*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 OFF-PEAK DAY 1 LANE CLOSURE
 DIVERSION ROUTE: BUS 51 - STH 52**

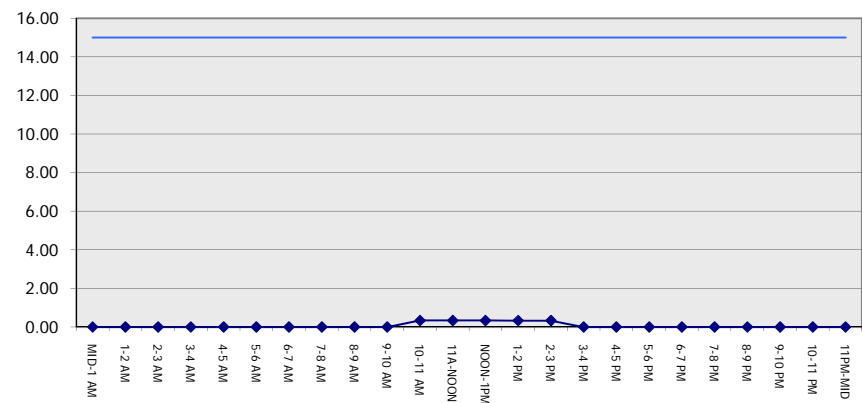
MAY
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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY SOUTHBOUND DIRECTION

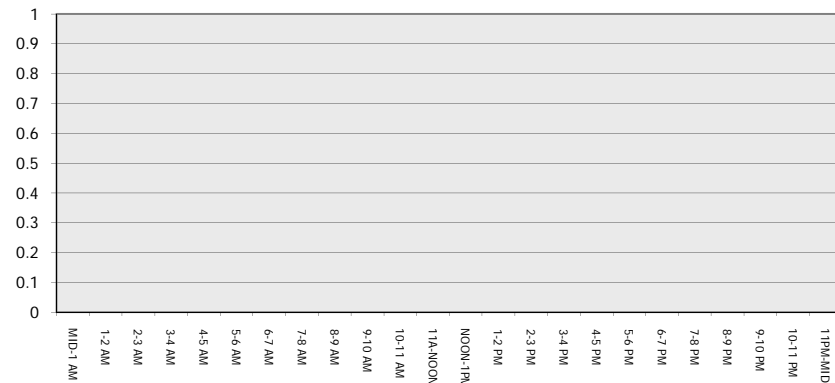
Main Route - Traffic Demand (Vehicles Per Hour)



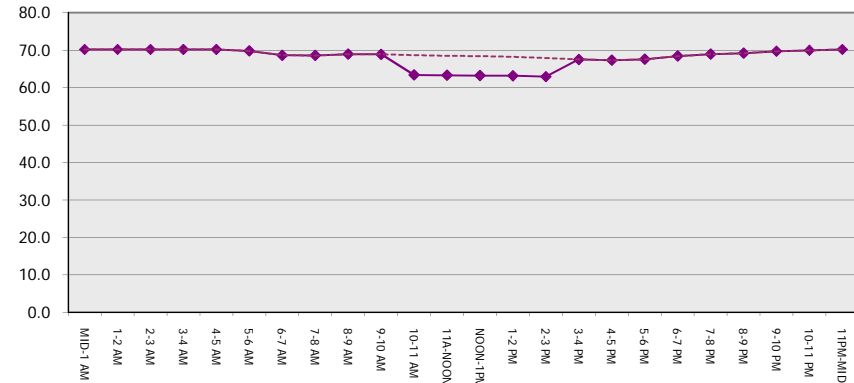
Main Route Average Delay Per Vehicle (Minutes)



Main Route - Average Queue Length (Vehicles)



Main Route - Average Speed (MPH)



USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY) OFF-PEAK DAY 1 LANE CLOSURE DIVERSION ROUTE: BUS 51 - STH 52	MAY
Analyzed for 2009 Construction Season	

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	343	0.0	72	0.0	OFF	343	0	72	0.00	0	70.2	70.2	70.2	31.6	31.6
1-2 AM	197	0.0	68	0.0	OFF	197	0	68	0.00	0	70.2	70.2	70.2	31.7	31.7
2-3 AM	162	0.0	61	0.0	OFF	162	0	61	0.00	0	70.2	70.2	70.2	31.9	31.9
3-4 AM	206	0.0	82	0.0	OFF	206	0	82	0.00	0	70.2	70.2	70.2	31.4	31.4
4-5 AM	272	0.0	168	0.0	OFF	272	0	168	0.00	0	70.2	70.2	70.2	29.1	29.1
5-6 AM	782	0.0	460	0.0	OFF	782	0	460	0.00	0	69.7	69.7	69.7	21.4	21.4
6-7 AM	1807	0.0	1004	0.0	OFF	1807	0	1004+	0.00	0	68.5	68.5	68.5	12.0	12.0
7-8 AM	2321	0.0	1280	0.0	OFF	2321	0	1280+	0.00	0	67.9	67.9	67.9	11.2	11.2
8-9 AM	1886	0.0	933	0.0	OFF	1886	0	933+	0.00	0	68.4	68.4	68.4	12.7	12.7
9-10 AM	2091	0.0	872	0.0	OFF	2091	0	872+	0.00	0	68.1	68.1	68.1	13.4	13.4
10-11 AM	2260	0.0	924	0.0	3000	2260	0	924+	0.33	0	67.9	62.9	49.7	12.8	12.8
11A-NOON	2383	0.0	947	0.0	3000	2383	0	947+	0.33	0	67.8	62.8	49.7	12.7	12.7
NOON-1PM	2501	0.0	1007	0.0	3000	2501	0	1007+	0.40	0	67.6	61.7	46.8	12.0	12.0
1-2 PM	2822	0.0	1053	0.0	2999	2822	0	1053+	0.61	0	67.3	58.7	40.2	11.4	11.4
2-3 PM	2996	0.0	1169	0.0	2999	2996	0	1169+	0.88	11	67.0	55.4	38.0	11.2	11.2
3-4 PM	3561	0.0	1327	0.0	OFF	3561	0	1327+	0.01	0	66.3	66.1	66.1	11.2	11.2
4-5 PM	3496	0.0	1370	0.0	OFF	3496	0	1370+	0.00	0	66.4	66.4	66.4	11.2	11.2
5-6 PM	3491	0.0	1177	0.0	OFF	3491	0	1177+	0.00	0	66.4	66.4	66.4	11.2	11.2
6-7 PM	3068	0.0	780	0.0	OFF	3068	0	780	0.00	0	66.9	66.9	66.9	15.3	15.3
7-8 PM	2749	0.0	558	0.0	OFF	2749	0	558	0.00	0	67.3	67.3	67.3	19.6	19.6
8-9 PM	2446	0.0	386	0.0	OFF	2446	0	386	0.00	0	67.7	67.7	67.7	23.3	23.3
9-10 PM	2067	0.0	296	0.0	OFF	2067	0	296	0.00	0	68.2	68.2	68.2	25.6	25.6
10-11 PM	1474	0.0	250	0.0	OFF	1474	0	250	0.00	0	68.9	68.9	68.9	26.9	26.9
11PM-MID	827	0.0	169	0.0	OFF	827	0	169	0.00	0	69.7	69.7	69.7	29.1	29.1

"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	0.0345
MAIN ROUTE WITH WORKS	0.0337
DIVERSION	0.1559

PIA: Personal Injury Accidents

IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY (DOLLARS)	\$1,389
CONGESTED HOURS PER DAY*	0

*Delays Exceeding 15 Minutes

**USH 51: STH 29 W TO STH 29 E (MARATHON COUNTY)
 OFF-PEAK DAY 1 LANE CLOSURE
 DIVERSION ROUTE: BUS 51 - STH 52**

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 Construction Season

GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
FRIDAY NORTHBOUND DIRECTION

