Implementation of a Caribbean Regional Spiny Lobster Management Program

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The objectives of this project are to: (1) collect data on a Pan-Caribbean basis; (2) provide data analysis capability to researchers in the Caribbean region; (3) utilize the data collected to provide estimates of growth, mortality and size composition of the catch; (4) present results at annual GCFI meetings and provide a forum for discussing data and management; and (5) assist as requested in the development of data collection and management programs on a local or island specific basis.

Data logbooks and calipers are available to individuals interested in participating in this project. The data logbook (Figure 1) was prepared by Environmental Research Projects with support from the South Carolina Sea Grant Consortium and the South Atlantic Fishery Management Council. During the lobster session the data logbook was presented and discussed with the participants. Subsequently, 70 sets were distributed to the following 15 countries/areas: Dominica, Tobago, St. Lucia, St. Kitts, Martinique, Antigua, Trinidad, Puerto Rico, Belize, Tortola, U.S. Virgin Islands, Bahamas, Bermuda, Panama and Anguilla.

Data received under this project will be entered onto a computer and utilized to generate both regional and private data bases. This data will then be used to generate size frequency plots (Figure 2 and Table 1), calculate growth and mortality rates and document recruitment patterns. These results will then be available to resource managers on a Pan-Caribbean basis.

TOBAÇO'S Table 1 SPINY LOBSTER SIZE FREQUENCY DISTRIBUTION FOR 1984 SIZE IN MILLIMETERS OF CARAPACE LENGTH

SIZE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	MOA	DEC	ANNUAL
1- 10	٥	٥	٥	٥	0	0	٥	٥	٥	0	0	٥	0
11- 20	0	0	٥	٥	٥	0	0	٥	0	٥	0	0	٥
21- 30	0	٥	0	٥	0	0	0	0	٥	0	٥	0	0
31- 40	0	0	0	O	0	0	0	0	0	0	٥	0	0
41- 50	0	0	٥	0	0	0	0	٥	0	0	٥	0	0
51- 60	٥	0	0	0	0	0	0	0	٥	0	0	0	0
61- 70	0	0	0	0	0	0	0	٥	0	0	٥	0	0
71- 80	0	0	0	0	0	0	Q	0	٥	0	9	0	0
81- 90	٥	0	٥	0	0	0	0	0	0	1	0	0	1
91-100	0	0	٥	0	0	.0	0	٥	0	3	0	0	3
101-110	0	0	0	O	0	0	0	3	٥	12	0	0	15
111-120	0	0	0	0	0	0	٥	5	1	6	0	0	12
121-130	0	٥	0	0	o	0	0	4	0	6	٥	0	10
131-140	٥	٥	0	o	0	٥	0	2	0	7	0	0	9
141-150	0	0	0	0	O	0	0	0	1	7	0	0	8
151-160	0	٥	0	0	٥	0	0	0	0	1	0	•	1
161-170	0	0	0	0	٥	0	0	0	0	0	0	0	٥
171-180	0	0	٥	0	0	0	0	0	o	٥	0	0	0
181-190	٥	0	0	0	٥	0	0	0	٥	٥	٥	٥	0
191-200	0	٥	0	0	0	0	0	0	0	0	0	O	0
201-210	0	٥	0	0	0	٥	0	0	0	0	٥	٥	٥
211-220	0	0	0	٥	0	٥	٥	0	٥	0	0	٥	0
221-230	0	٥	0	٥	0	٥	0	0	0	0	0	O.	0
231-240	0	٥	٥	Ō	0	0	٥	٥	0	o	٥	0	0
241-250	٥	0	0	0	٥	0	0	0	0	٥	0	٥	0
251-250	٥	0	٥	٥	0	c	0	0	0	٥	o	٥	0
261-270	٥	0	0	0	0	0	٥	٥	٥	0	0	٥	0
271-280	0	0	0	0	Ò	Ò	٥	0	0	0	0	٥	0
281-290	0	0	0	0	٥	0	0	0	Ó	0	0	٥	•
291-300	٥	٥	0	0	0	٥	0	o	٥	0	0	٥	0
301+	0	0	٥	٥	0	0	٥	0	0	0	٥	0	0
TOTAL	o	0	0	0	0	0	0	14	2	43	0	0	59
MEAN CTOE	0.0	0.0	0.0	0.0	0.0	0.0	0.01	19.1	1311	20.7	0.0	0.0	120.7

MEAN SIZE 0.0 0.0 0.0 0.0 0.0 0.0 0.0119.1 131120.7 0.0 0.0 120.7

Caribbean Regional Spiny Lobster Management Program Lobster Landing Data Sheet

1. Total weight	2. Total n	amber 3. Spe	cies									
4. Where sampled _		5. T	pe of measure	6. Sampl	e date							
Area fished 8. Landing site												
9. Trap Divis	ng Bull	y net 10. Ho	urs	11. No. o	f traps set							
12 No. of hauls ma	ıde	13. Soak time		14. Diving hours								
15. Depth	16	6. No. of boats		17. No. of men								
Carapace Length (mm)	Sex(*)	Carapace Length (mm)	Sex(*)	Carapace Length (mm)	Sex(*)							
	- 1											

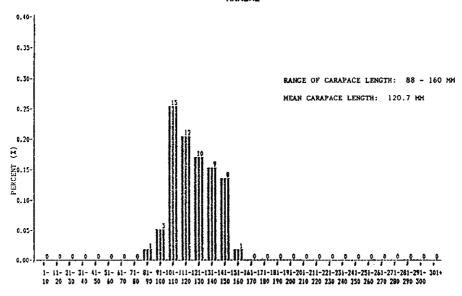
WHITE COPY TO YOUR FILES, YELLOW COPY TO GREGG WAUGH, South Atlantic Fishery Management Council, 1 South Park Circle, Suite 306, Charleston, SC 29407-4699, U.S.A.

^{*} Sex - 0 = male, 1 = female, 2 = female with tar, 3 = female with eggs

Figure 2 TOBAGO'S

SPINY LOBSTER SIZE FREQUENCY DISTRIBUTION FOR 1984

ANNUAL



CARAPACE LENGTH (MM)