

TABLE OF CONTENTS

	P A G E
EXECUTIVE SUMMARY	1
DEFINITIONS	2
1.0 INTRODUCTION	5
2.0 DESCRIPTION OF RESOURCE	6
2.1 THE FISHERY MANAGEMENT UNIT	7
2.2 ABUNDANCE AND DISTRIBUTION	7
2.3 REPRODUCTION AND EARLY DEVELOPMENT	8
2.4 GROWTH AND MATURATION	11
2.5 MOVEMENT AND MIGRATION	12
2.6 HABITAT	13
2.7 FOOD	15
2.8 PREDATION	15
3.0 DESCRIPTION OF FISHERY	16
3.1 HISTORY OF EXPLOITATION	16
3.2 PROCESSING AND MARKETING	17
3.3 CURRENT STATUS OF THE FISHERY	18
3.4 FLORIDA MANAGEMENT PROGRAM	21
3.5 CATCH AND CAPACITY DESCRIPTORS	22
4.0 PROBLEMS IN THE FISHERY	29
4.1 OVERFISHING	29
4.2 MANAGEMENT/ENFORCEMENT	30
4.3 DATA BASE	32
4.4 INFORMATION/EDUCATION	32
4.5 HABITAT DEGRADATION	32

	PAGE
5.0 MANAGEMENT OBJECTIVES	33
5.1 OVERFISHING DEFINITION	34
5.2 REBUILDING PROGRAM	34
6.0 MANAGEMENT MEASURES AND ALTERNATIVES	36
6.1 SIZE LIMITS	36
6.2 PROHIBIT SALE OF UNDERSIZED QUEEN CONCH	39
6.3 HARVEST LIMITS	39
6.4 SPAWNING SEASON CLOSURE	41
6.5 SCUBA/HOOKAH PROHIBITION	41
6.6 OTHER MEASURES CONSIDERED AND REJECTED	42
6.7 PROCEDURE FOR ADJUSTING MANAGEMENT MEASURES	44
7.0 RECOMMENDATIONS TO LOCAL GOVERNMENTS AND OTHER AGENCIES	45
8.0 RELATED MANAGEMENT JURISDICTIONS, LAWS, AND POLICIES	47
8.1 FEDERAL	48
8.2 LOCAL	52
9.0 REFERENCES	57
 LIST OF TABLES AND FIGURES	
TABLE 1: SPECIES IN THE FISHERY MANAGEMENT UNIT (FMU) OF THE DRAFT FISHERY MANAGEMENT PLAN FOR QUEEN CONCH	65
TABLE 2: CONCH LANDINGS (IN POUNDS) FOR PUERTO RICO	66
TABLE 3: CONCH LANDINGS (IN POUNDS) FOR THE USVI	67

	PAGE
TABLE 4: CONCH LANDINGS (IN POUNDS) BY MONTH FOR PUERTO RICO BETWEEN 1983-1992	68
TABLE 5: CATCH, EFFORT (NUMBERING OF FULL-TIME WEST COAST FISHERMEN) AND CATCH/EFFORT USED IN ANALYSES OF THE QUEEN CONCH FISHERY OF THE WEST COAST OF PUERTO RICO (FROM APPELDOORN, 1987)	69
TABLE 6: RESULTS OF PRODUCTION MODEL ANALYSES OF PUERTO RICO'S WEST COAST CONCH FISHERY	70
TABLE 7: LETTER FROM GOVERNOR JUAN LUIS TO THE REGIONAL DIRECTOR, NATIONAL MARINE FISHERIES SERVICE	71
TABLE 8: LETTER FROM GOVERNOR CARLOS ROMERO BARCELO TO THE REGIONAL DIRECTOR, NATIONAL MARINE FISHERIES SERVICE	72
FIGURE 1: QUEEN CONCH DISTRIBUTION	74
FIGURE 2: PREDICTIONS OF YIELD VERSUS EFFORT FOR THE PUERTO RICO WEST COAST CONCH FISHERY FROM FOUR DIFFERENT STOCK PRODUCTION MODELS	75
FIGURE 3: ESTIMATED COMMERCIAL LANDINGS OF QUEEN CONCH IN PUERTO RICO BY COAST (FROM APPELDOORN, 1987)	76
FIGURE 4: F (FISHING MORTALITY) VS. SPR (SPAWNING POTENTIAL RATIO)	77

FIGURE 5: MEASURING TOOL USED IN THE
USVI FOR QUEEN CONCH, WHELK
AND SPINY LOBSTER

78

APPENDIX I SIA

APPENDIX II RIR

APPENDIX III FEIS