

CONTENTS

	page
ABSTRACT.....	ii
ACKNOWLEDGEMENTS.....	iii
LIST OF FIGURES.....	iv
LIST OF TABLES.....	vi
1 INTRODUCTION.....	1
2 MATERIALS AND METHODS	8
2.1 The stock recruitment models.....	8
2.1.1 The Ricker model of stock and recruitment....	8
2.1.2 The Beverton and Holt model of stock and recruitment	10
2.1.3 The Shepherd model of stock and recruitment..	11
2.2 The stock and recruitment data of western mackerel.....	12
2.3 Application of stock recruitment models to the Western mackerel stock and recruitment data....	16
3 RESULTS.....	18
3.1 The results obtained from the Ricker model ...	18
3.2 The results obtained from the Beverton and Holt model.....	24
3.3 The results obtained from the Shepherd model...	29
4 DISCUSSION.....	34
5 TABLES	39
6 REFERENCES	51