

LIST OF TABLES

3.1	Maximum likelihood estimates for NB, $\mu = 6.75$ and $\phi = 4.5$.	35
3.2	Empirical level for the BFI test with and without BC_a correction, $\alpha = 0.05$.	35
3.3	Empirical level for the EDF, BFI and ω_b tests, $\alpha = 0.05$.	36
3.4	Empirical level for the EDF and BFI tests, $\alpha = 0.10$.	37
3.5	Power comparison for the EDF tests and BFI test when $\alpha = 0.05$ and $n = 100$.	39
3.6	Power comparison for the EDF tests and BFI test when $\alpha = 0.05$ and $n = 20$.	39
3.7	Empirical level for the BFI test.	41
3.8	Empirical level for the JB test.	41
4.1	Empirical level for the UMP test for mean, $\alpha = 0.05$.	52
4.2	Power comparison for the UMP test for mean, $\alpha = 0.05$.	53
4.3	Empirical level for the UMP test for mean, $\alpha = 0.05$ and $n = 50$.	53
4.4	Empirical level for the small sample UMP test for mean when $\alpha = 0.05$.	54
5.1	Efficiency of moments estimation.	62
5.2	Efficiency of moments and zero frequency estimation.	63
5.3	95% confidence interval for parameters of Delaporte distribution based on IM and WH approaches.	67
5.4	Parameter estimation for Delaporte distribution based on MLE and Q_n .	72
5.5	Data fitting for distribution of Corbet's Butterflies with zeros (Blumer, 1974).	74