Record Nr. UNINA9910780251403321 Autore Bart Jonathan **Titolo** Sampling and statistical methods for behavioral ecologists // Jonathan Bart, Michael A. Fligner, and William I. Notz [[electronic resource]] Cambridge: ,: Cambridge University Press, , 1998 Pubbl/distr/stampa **ISBN** 1-107-11217-6 0-511-01142-3 1-280-41671-8 9786610416714 0-511-17346-6 0-511-15253-1 0-511-32757-9 0-511-61257-5 0-511-05278-2 Descrizione fisica 1 online resource (xii, 330 pages) : digital, PDF file(s) Disciplina 590/.1/5195 Soggetti Animal behavior - Statistical methods Sampling (Statistics) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Title from publisher's bibliographic system (viewed on 05 Oct 2015). Includes bibliographical references (p. 320-327) and index. Nota di bibliografia Nota di contenuto Cover: Half-title: Dedication: Title: Copyright: Contents: Preface: 1 Statistical analysis in behavioral ecology; 2 Estimation; 3 Tests and confidence intervals; 4 Survey sampling methods; 5 Regression; 6 Pseudoreplication: 7 Sampling behavior: 8 Monitoring abundance: 9 Capture...recapture methods; 10 Estimating survivorship; 11 Resource selection; 12 Other statistical methods; Appendix One Frequently used statistical methods; Appendix Two Statistical tables; Appendix Three Notes for Appendix One: References: Index This 1998 book describes the sampling and statistical methods used Sommario/riassunto most often by behavioral ecologists and field biologists. Written by a biologist and two statisticians, it provides a rigorous discussion

together with worked examples of statistical concepts and methods that are generally not covered in introductory courses, and which are

consequently poorly understood and applied by field biologists. The first section reviews important issues such as defining the statistical population and the sampling plan when using non-random methods for sample selection, bias, interpretation of statistical tests, confidence intervals and multiple comparisons. After a detailed discussion of sampling methods and multiple regression, subsequent chapters discuss specialized problems such as pseudoreplication, and their solutions. It will quickly become the statistical handbook for all field biologists.