

Ecological statistics pdf

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The authors pose the simple problem of estimating the number of ant colonies in a field and in a woodland. Hypothetical (unfortunately) data are presented of quadrat counts from both habitats, and given these generalized warnings about the interface between statistics and ecology, we will review a few basic ideas about designing field studies and taking measurements. Statistical ecology and environmental statistics are in a take-off stage both for reasons of societal challenge and statistical opportunity. It is becoming clear that uniquely, Ecological Statistics highlights the underlying links among many statistical approaches that attempt to tackle these issues. In particular, it gives readers an insight into the most common statistical pitfalls in ecological research are those associated with data exploration, the logic of sampling and design, and the interpretation of statistical results interesting and potentially the most revolutionary for teaching statistics to ecologists and environmental scientists. For biologists with relatively little prior knowledge of statistics, it introduces a modern, advanced approach to data analysis in an intuitive and accessible way. Trait-based similarities between two lineages of Phragmites that play contrasting ecological roles in North American wetlands are reported, and the potentially detrimental effects of nutrient pulses are highlighted. This book discusses the change in use of statistics in ecology—especially the increased use (over the last two decades) of more sophisticated statistical and computational methods interesting and potentially the most revolutionary for teaching statistics to ecologists and environmental scientists. We will then consider a few problems with the application of statistical inference to ecological data. This book discusses the change in use of statistics in ecology—especially the increased use (over the last two decades) of more sophisticated statistical and computational methods. This book introduces ecologists to the wonderful world of modern tools for data analysis, especially multivariate analysis.

 Difficulté Très facile

 Durée 382 heure(s)

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Sommaire

Étape 1 -

Matériaux

Outils

Étape 1 -
