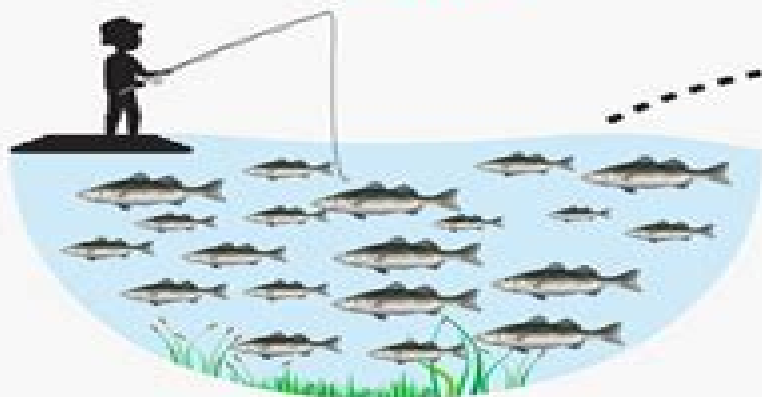
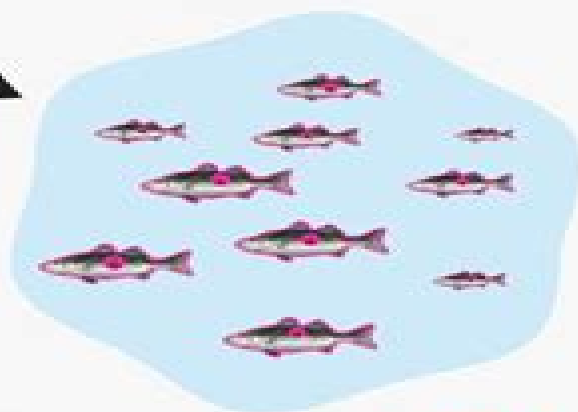


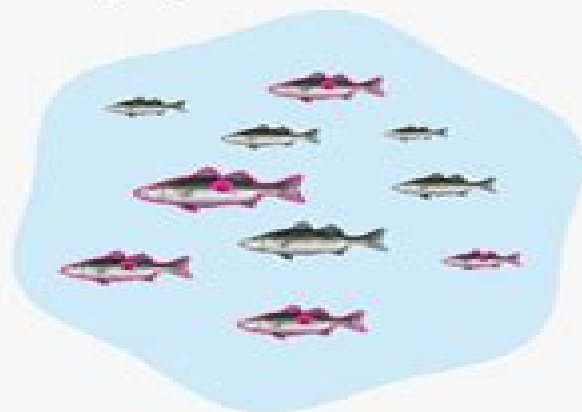
Example of a Population Estimate using a **Mark-Recapture** Method in a Closed Population



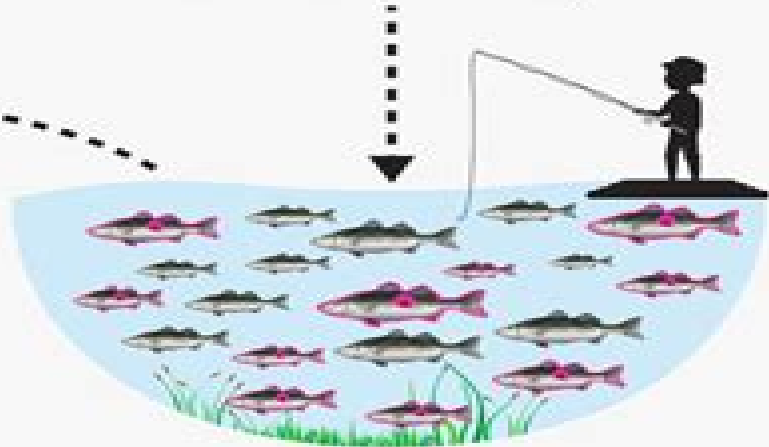
Before sampling: all fish in a pond
(closed population) are unmarked



10 fish are captured, **marked**, and
released back into the pond



The sample shows that 5 marked
and 5 unmarked fish were captured



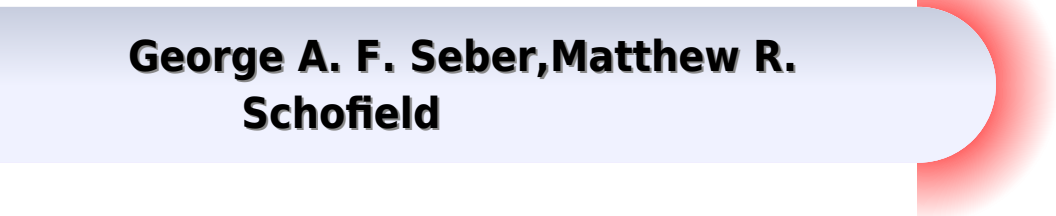
The pond is re-sampled

$$\frac{\text{\# of tagged fish } 10}{\text{\% of marked fish } .5 \text{ in sample}} = 20$$

Estimated population
of **all fish** in the pond

Answer Ecology Estimating Population Mark Recapture

**George A. F. Seber, Matthew R.
Schofield**



Answer Ecology Estimating Population Mark Recapture:

Capture-Recapture: Parameter Estimation for Open Animal Populations George A. F. Seber, Matthew R.

Schofield, 2019-08-13 This comprehensive book rich with applications offers a quantitative framework for the analysis of the various capture recapture models for open animal populations while also addressing associated computational methods The state of our wildlife populations provides a litmus test for the state of our environment especially in light of global warming and the increasing pollution of our land seas and air In addition to monitoring our food resources such as fisheries we need to protect endangered species from the effects of human activities e g rhinos whales or encroachments on the habitat of orangutans Pests must be controlled whether insects or viruses and we need to cope with growing feral populations such as opossums rabbits and pigs Accordingly we need to obtain information about a given population s dynamics concerning e g mortality birth growth breeding sex and migration and determine whether the respective population is increasing static or declining There are many methods for obtaining population information but the most useful and most work intensive is generically known as capture recapture where we mark or tag a representative sample of individuals from the population and follow that sample over time using recaptures resightings or dead recoveries Marks can be natural such as stripes fin profiles and even DNA or artificial such as spots on insects Attached tags can for example be simple bands or streamers or more sophisticated variants such as radio and sonic transmitters To estimate population parameters sophisticated and complex mathematical models have been devised on the basis of recapture information and computer packages This book addresses the analysis of such models It is primarily intended for ecologists and wildlife managers who wish to apply the methods to the types of problems discussed above though it will also benefit researchers and graduate students in ecology Familiarity with basic statistical concepts is essential *Estimating Presence and Abundance of Closed Populations* George A. F.

Seber, Matthew R. Schofield, 2023-12-01 This comprehensive book covers a wide variety of methods for estimating the sizes and related parameters of closed populations With the effect of climate change and human territory invasion we have seen huge species losses and a major biodiversity decline Populations include plants trees various land and sea animals and some human populations With such a diversity of populations an extensive variety of different methods are described with the collection of different types of data For example we have count data from plot sampling which can also allow for incomplete detection There is a large chapter on occupancy methods where a major interest is determining whether a particular species is present or not Citizen and opportunistic survey data can also be incorporated A related topic is species methods where species richness and species interactions are of interest A variety of distance methods are discussed One can use distances from points and lines as well as nearest neighbor distances The applications are extensive and include marine acoustic and aerial surveys using multiple observers or detection devices Line intercept measurements have a role to play such as for example estimating parameters relating to plant coverage An increasingly important class of removal methods considers

successive removals from a population with physical removal or removal by capture recapture of marked individuals With the change in ratio method removals are taken from two or more classes e g males and females Effort data used for removals can also be used A very important method for estimating abundance is the use of capture recapture data collected discretely or continuously and can be analysed using both frequency and Bayesian methods Computational aspects of fitting Bayesian models are described A related topic of growing interest is the use of spatial and camera methods With the plethora of models there has been a corresponding development of various computational methods and packages which are often mentioned throughout Covariate data is being used more frequently which can reduce the number of unknown parameters by using logistic and loglinear models An important computational aspect is that of model selection methods The book provides a useful list of over 1400 references

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