

Virtual Mark-Recapture Lab: Tracking Grizzlies

Log in to the following website and read about how biotechnology is being used to help determine the population of grizzly bears.

http://www.mhhe.com/biosci/genbio/virtual_labs/BL_29/BL_29.html

Keys for calculating populations:

N = number of individuals in a population

T = number of bears tagged in the first capture. These bears are "TAGGED"

S = number of bears captured in the current capture

ST = Number of tagged or previously identified in the current sample

$$N = (T \times S) / ST$$

- As you continue past the second trapping you need to count the total # that has been previously trapped (those trapped initially as well as the ones trapped later)

FORMULA:

N = (# in current sample)(Total # marked) / # Marked in current sample

DATA CHART 1:

Hair Trappings	Hair Samples (S)	Total # Identified (T)	Repeat (ST)	Estimated Pop (N)
Initial				
2				
3				

Virtual Lab Tracking Grizzlies Answers

Hussin A.Rothana



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IEP Newsletter ,2004 **The Youth's Companion** Nathaniel Willis,Daniel Sharp Ford,1921 Includes music *Field & Stream* ,2004-02 FIELD STREAM America s largest outdoor sports magazine celebrates the outdoor experience with great stories compelling photography and sound advice while honoring the traditions hunters and fishermen have passed down for generations **Monthly Catalog of United States Government Publications** ,1994 **Backpacker** ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured Monthly Catalogue, United States Public Documents ,1994-07

Educational Film & Video Locator of the Consortium of College and University Media Centers and R.R.

Bowker Consortium of College and University Media Centers,1990 **Runner's World** ,2008-10 Runner s World magazine aims to help runners achieve their personal health fitness and performance goals and to inspire them with vivid memorable storytelling **Books Out-of-print** ,1981 *AB Bookman's Weekly* ,1994 **Aggregates Manager** ,2003 **American Book Publishing Record Cumulative, 1950-1977: Title index** R.R. Bowker Company. Department of Bibliography,1978 Indianapolis Monthly ,2002-11 Indianapolis Monthly is the Circle City s essential chronicle and guide an indispensable authority on what s new and what s news Through coverage of politics crime dining style business sports and arts and entertainment each issue offers compelling narrative stories and lively urbane coverage of Indy s cultural landscape *Life* Henry R. Luce,1961 *Time* ,1956 *International California Mining Journal* ,1995-07 **New Scientist** ,2002 *Australasian Weekly Manufacturer* ,1961 American Book Publishing Record ,2004 Books in Print Supplement ,2002

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