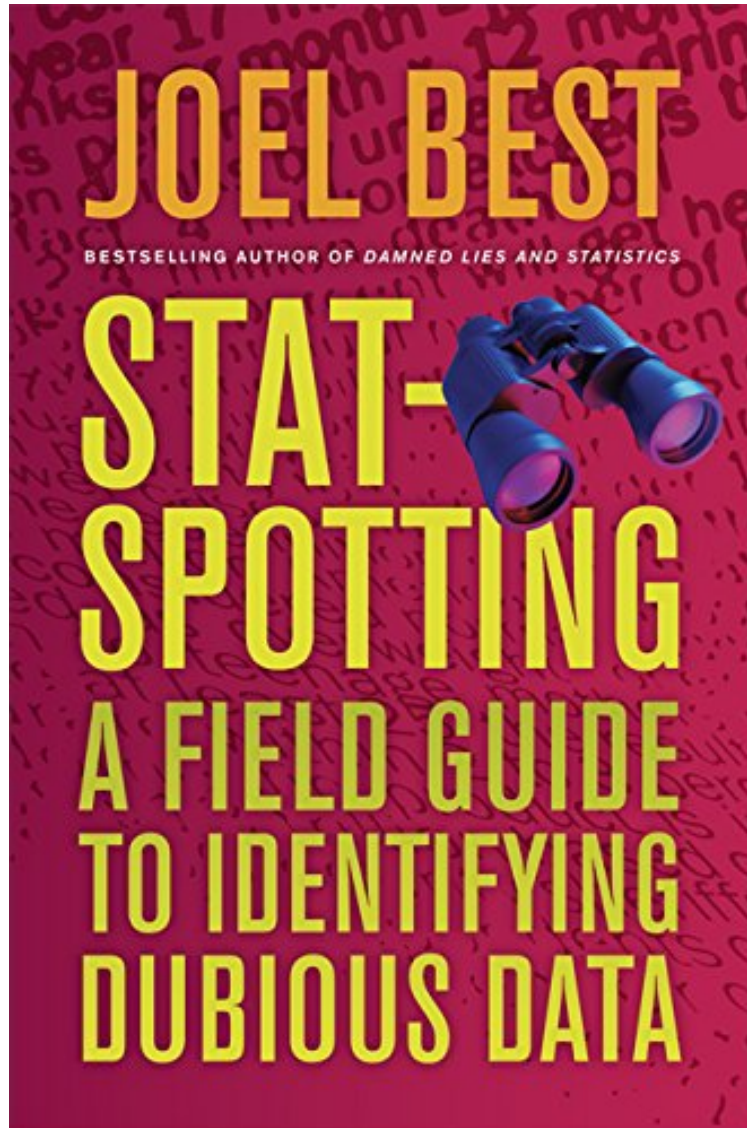


(Get free) Stat-Spotting: A Field Guide to Identifying Dubious Data

Stat-Spotting: A Field Guide to Identifying Dubious Data

Joel Best

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Joel Best : Stat-Spotting: A Field Guide to Identifying Dubious Data before purchasing it in order to gage whether or not it would be worth my time, and all praised Stat-Spotting: A Field Guide to Identifying Dubious Data:

10 of 10 people found the following review helpful. This book is full of surprisesBy ToniStatistics are used to support a variety of claims. It takes a trained eye to interpret the validity of a massive amount of statistical data particularly surrounding health care claims. Statistics are not synonymous with facts. Although statistics play a major role in data integrity one must look closer with a dubious eye. Especially since statistics are often used to support a claim or sell a concept. Joel Best takes the most common data marketing tricks and explains them to the lay person in a creative way.

The dubious data is laid out before the reader as one would expect to see in an ecology field guide for nature enthusiasts. Therefore, Stat-Spotting fulfills its mission delightfully as promised by presenting a guide for spotting dubious data, "questionable stats". Along with the creative format the author also appeals to the reader's sense of reporting order by covering the "how", the "who" and the "what". Be on the look out for "fictoids" which the author defines as colorful or erroneous stats used as a hyperbole. Where upon discovery a loud bell should ring in one's head as a reminder to not take literally but instead look deeper. In order to master stat spotting, here are a few simple rules to keep in mind: 1. Having a sense of scale allows you to understand the magnitude and validity of data. 2. The more severe or dramatic the case the more likely it is to be extremely rare. 3. Most people are innumerate or mathematically illiterate and subsequently easily fooled. 4. Keep an eye out for numbers that are surprising large or small. 5. The unit of measure is deceiving, for example using minutes to report a crime rate (% of total population). 6. All stats should be reported in simple language. The language used may change the implication of the data. 7. The graph is a visual representation of the statistic and may be misleading. 8. If the number is too high or too low, it most likely errs on the side of exaggeration and is therefore a guesstimate. Think about how it was calculated. 9. Watch for superlatives by their nature they imply comparison. 10. Since every stat implies a definition realize the ever changing nature of definitions, for example "overweight". 11. Methodologies of data collection affect the outcome. 12. The "who" of data collection, that is, who supported the research will most likely affect the outcome. 13. Be aware of "meaningless milestones" which are the underlying trend and its cause. 14. The "law of averages" is very tricky. Therefore the median is a more useful measure particularly in a wide variation of numbers. The underlying mission of Stat-Spotting is for the reader to become more mathematically astute. The frame of reference for many of the examples in the book is the health care field. As health care professionals are we rapidly accepting statistics as facts? Just a few of the book's statistical concepts that surround the health care profession are: Epidemics compare old data and new data to draw conclusions but what if the definition of the disease changes? Correlation does not necessarily prove causality therefore consider what other factors might explain the relationship. Dramatic discoveries are a cautionary tale since a later study can prove them wrong. The book has several pages of references to support Joel Best's concrete examples used throughout. There is also a list of helpful websites, blog sites, and suggested supplemental reading. If after reading Stat-Spotting you are still suspicious, then the guide has successfully served its purpose.

1 of 1 people found the following review helpful. and I actually enjoyed it. I was able to understand it well ...By Naomi Hogan I read this book for a college course, and I actually enjoyed it. I was able to understand it well and there were relevant examples throughout the book to support the points being made. Very clear to understand and not boring. I'd recommend this book for any class! 9 of 9 people found the following review helpful. I want so badly to give this book five stars...By Saganite...but it's too slight. With some judicious editing, it's a journal article. But this is a case where the complaint is not that the food was bad and the portions too small: In fact, the food was so great, one wishes it were all-you-can-eat. And then I'm left wondering if perhaps the book's very brevity might not be part of what makes it so splendid. I have often complained that too many books are mere pamphlets exploded out to book size to make them marketable. I guess if one does not tie value to mass, then even though this book might seem too little of a good thing, it is a remarkable value for what it does contain. What it contains, chiefly, is a compact description of several particular species of stat problem (and ultimately, sign of a healthy stat) to watch out for, followed by an example of such a stat's use from real life. In this regard, it follows pretty literally its description as a "field guide," and the samples selected are key to what makes this book excellent. I am not confident that after reading this book I will be as good at teasing out the issues as Best and other statisticians are, but he has tried to give me some tools to recognize some of the more egregious examples of number abuse. As someone who has long struggled with numeracy and come to see just how crucial it is for a rounded understanding of science and politics and other key subjects, I am grateful for the assistance such a guide provides. I think "Spotting" is a terrific book for people who find themselves in a similar position.

Are four million women really battered to death by their husbands or boyfriends each year? Does a young person commit suicide every thirteen minutes in the United States? Is methamphetamine our number one drug problem today? Alarming statistics bombard our daily lives, appearing in the news, on the Web, seemingly everywhere. But all too often, even the most respected publications present numbers that are miscalculated, misinterpreted, hyped, or simply misleading. Following on the heels of his highly acclaimed *Damned Lies and Statistics* and *More Damned Lies and Statistics*, Joel Best now offers this practical field guide to help everyone identify questionable statistics. Entertaining, informative, and concise, Stat-Spotting is essential reading for people who want to be more savvy and critical consumers of news and information. Stat-Spotting features: * Pertinent examples from today's news, including the number of deaths reported in Iraq, the threat of secondhand smoke, the increase in the number of overweight Americans, and many more * A commonsense approach that doesn't require advanced math or statistics

An ideal guide for anyone who reads a newspaper, watches television, or surfs the Web. In short, everyone.