

## Adults' statistical literacy: Meanings, components, responsibilities

I Gal - *International Statistical Review*, 2002 - [Wiley Online Library](#)

Summary **Statistical literacy** is a key ability expected of citizens in information-laden societies, and is often touted as an expected outcome of schooling and as a necessary component of adults' numeracy and literacy. Yet, its meaning and building blocks have ...

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## Enhancing statistical literacy: Enriching our society

KK Wallman - *Journal of the American Statistical ...*, 1993 - [amstat.tandfonline.com](#)

Congress also discussed whether the census should collect any information beyond a mere headcount necessary for apportionment. James Madison proposed a rather elaborate schedule to categorize the population by age, sex, race, and occupation.... He was ...

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## The challenge of developing statistical literacy, reasoning, and thinking

D Ben-Zvi, JB Garfield - 2004 - [Springer](#)

Contents List of Authors Foreword David S. Moore Preface Dani Ben-Zvi and Joan Garfield PART I: INTRODUCTION TO **STATISTICAL LITERACY, REASONING, AND THINKING** 1. **Statistical Literacy, Reasoning, and Thinking: Goals, Definitions, and Challenges** 3 Dani Ben-Zvi ...

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## Statistical literacy as a goal for introductory statistics courses

DJ Rumsey - *Journal of Statistics Education*, 2002 - [amstat.org](#)

Abstract In this paper, I will define **statistical literacy** (what it is and what it is not) and discuss how we can promote it in our introductory statistics courses, both in terms of teaching philosophy and curricular issues. I will discuss the important elements that comprise ...

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## Statistical literacy, reasoning, and thinking: Goals, definitions, and challenges

BZ Dani, G Joan - *The challenge of developing statistical literacy, ...*, 2004 - [Springer](#)

Over the past decade there has been an increasingly strong call for statistics education to focus more on **statistical literacy**, reasoning, and thinking. One of the main arguments presented is that traditional approaches to teaching statistics focus on skills, procedures, ...

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## Statistical literacy: A complex hierarchical construct

JM Watson, R Callingham - *Statistics Education Research Journal*, 2003 - [iase-web.org](#)

SUMMARY The aim of this study was, first, to provide evidence to support the notion of **statistical literacy** as a hierarchical construct and, second, to identify levels of this hierarchy across the construct. The study used archived data collected from two large-scale ...

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## Statistical literacy at school: Growth and goals

JM Watson - 2013 - [books.google.com](#)

This book reveals the development of students' understanding of **statistical literacy**. It provides a way to "see" student thinking and gives readers a deeper sense of how students think about important statistical topics. Intended as a complement to curriculum documents ...

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## Statistical literacy

I Gal - *The challenge of developing statistical literacy, ...*, 2004 - [Springer](#)

Many curriculum frameworks and national and international educational initiatives, including but not limited to those focusing on the mathematical sciences, underscore the importance of enabling all people to function effectively in an information-laden society (eg, United ...

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## Statistical literacy, reasoning, and learning: A commentary

RC delMas - *Journal of Statistics Education*, 2002

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## Research on statistical literacy, reasoning, and thinking: Issues, challenges, and implications

J Garfield, D Ben-Zvi - *The challenge of developing statistical literacy, ...*, 2004 - [Springer](#)

Summary This book focuses on one aspect of the "infancy" of the field of statistics education research, by attempting to grapple with the definitions, distinctions, and development of **statistical literacy**, reasoning, and thinking. As this field grows, the research studies in this ...

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### Development of understanding of sampling for **statistical literacy**

JM Watson, JB Moritz - *The Journal of Mathematical Behavior*, 2000 - Elsevier

The development of understanding sampling is explored through responses to four items in a longitudinal survey administered to over 3000 students from Grades 3 to 11. Responses are described with reference to a three-tiered framework for **statistical literacy**, including ...

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### Measuring **statistical literacy**.

R Callingham, JM Watson - *Journal of Applied Measurement*, 2004 - europepmc.org

This study considers the measurement of **Statistical Literacy** understanding that goes beyond the basic chance and data skills and knowledge in the mathematics curriculum. This understanding requires application of mathematical skills in a range of contextual ...

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### Teaching for **statistical literacy** and services of statistics agencies

I Gal - *The American Statistician*, 2003 - Taylor & Francis

Increasing attention is given to the importance of developing **statistical literacy** of citizens and students. This article examines approaches to teaching for **statistical literacy** and identifies areas that need attention, in light of limitations on skill transfer and reliance on ...

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### Information literacy, **statistical literacy** and data literacy

M Schield - *IASSIST Quarterly*, 2004 - statlit.org

The evaluation of information is a key element in information literacy, **statistical literacy** and data literacy. As such, all three literacies are inter-related. It is difficult to promote information literacy or data literacy without promoting **statistical literacy**. While their relative importance ...

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### **Statistical literacy: Thinking critically about statistics**

M Schield - *Of Significance*, 1999 - augsburg.edu

Abstract: **Statistical literacy** is the ability to read and interpret data: the ability to use statistics as evidence in arguments. **Statistical literacy** is a competency: the ability to think critically about statistics. This introduction defines **statistical literacy** as a science of method, ...

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### **Statistical literacy: Conceptual and instructional issues**

Iddo Gal - ... on adults learning mathematics: Research and ..., 2002 - Springer

One key declared goal of education programs at all levels is preparing learners to become more informed citizens and workers who can effectively function in an information-laden society. Towards that end, instruction in literacy and mathematics is usually provided, in ...

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### **Statistical tools and statistical literacy: The case of the average**

I Gal - *Teaching Statistics*, 1995 - Wiley Online Library

CONCEPTS AS TOOLS ~ I argue that teachers should aim not only for know- ledge of averages, but of averaging. An analogy to painting will clarify the distinction between knowing a concept and understanding how to use it. Think, say, of a brush as one of several tools ...

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### **Statistical literacy** curriculum design

M Schield - *IASE Curriculum Design Roundtable. See www. StatLit. ...*, 2004 - Citeseer

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### **Statistical literacy** survey analysis: Reading graphs and tables of rates and percentages

M Schield - *Proceedings of the Sixth International Conference on ...*, 2006 - Citeseer

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### Instructional design and the development of **statistical literacy**

KC Bessant - *Teaching Sociology*, 1992 - JSTOR

Sociologists generally accept the pivotal role of statistical analysis in the research process. In spite of this awareness, most instructors involved in teaching statistics have failed to come to terms with the rather awkward manner in which these skills are passed on to ...

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