

CHAPTER OVERVIEW

1: Introduction

Learning Objectives

Having read this chapter, you should be able to:

- Describe the central goals and fundamental concepts of statistics
- Describe the difference between experimental and observational research with regard to what can be inferred about causality
- Explain how randomization provides the ability to make inferences about causation.

“Statistical thinking will one day be as necessary for efficient citizenship as the ability to read and write.” - H.G. Wells

[1.1: What Is Statistical Thinking?](#)

[1.2: Dealing with Statistics Anxiety](#)

[1.3: What Can Statistics Do for Us?](#)

[1.4: The Big Ideas of Statistics](#)

[1.5: Causality and Statistics](#)

[1.6: Suggested Readings](#)

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