

Statistical Science

Chapter 1. Statistical Analysis and Inference in the Natural Sciences

Chapter 1.1 The Role of Statistics in Science

Slide presentation on website

Chapter 1.2 Model Based Analysis and Inference

Inferential Cards Lab 1

Chapter 1.3 Quantitative Reasoning

Two Examples

Advantages of the Model-Based Approach

First Day

Introductions

Syllabus

Questionnaire

Yellow chalk

Lab 1

Bring Cards

Location: see syllabus

Chapter 1.2 Model-based Analysis and Statistical Inference

Challenging questions

Uncertainty

Verbal, Graphical, and Formal Models

Role of models in statistics

Course Structure

Opinions

Looking ahead

on chalk board

Chapter 1.3 Quantitative reasoning

Two examples

Advantages of model-based approach

on chalk board