

## CHAPTER OVERVIEW

### 2: ANOVA Foundations

#### Objectives

Upon completion of this chapter, you should be able to:

- Perform basic computations for Single Factor ANOVA and interpret the results.
- Carry out the Tukey pairwise mean comparison method.
- Learn about other pairwise mean comparison methods.
- Conduct a contrast analysis that accommodates the comparison of group means.

In this chapter, we will begin to learn the notation and the formulas to compute the fundamental quantities necessary for ANOVA-related hypothesis testing as well as mean comparison procedures. The application of these statistical procedures will be illustrated using the Greenhouse example from [Chapter 1](#).

[2.1: Building the ANOVA Table - Notation](#)

[2.2: Computing Quantities for the ANOVA Table](#)

[2.3: Tukey Test for Pairwise Mean Comparisons](#)

[2.4: Other Pairwise Mean Comparison Methods](#)

[2.5: Contrast Analysis](#)

[2.6: Try It!](#)

[2.7: Chapter 2 Summary](#)

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