Other issues with Randomized Complete Block and Latin Square Designs

The text discusses a few additional topics in this chapter. One is that you can have a factorial treatment design with blocking, which can be called a randomized complete block factorial design. The text has a discussion of missing data in block designs, which are addressed using a Type III sum of squares type of approach. There is also a section discussing experiments performed several times, in which considerations such as interactions between treatment results and experimental replications is discussed.

Split Plot Designs

We have now studied many possible treatment structures and the use of blocking to reduce experimental error. Two situations that we have not encountered yet are i) when not all treatment levels can fit in a block, and ii) when different treatment factors have different sizes of experimental units. These two issues arise in split-plot designs, as shown in some examples.