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Week 12 Reading Questions

Mike Nelson

Q1: The inherent conflict of using a complicated model that minimizes the unexplained variation and using a simple model that is easy to communicate is the fact that although you a model that has several parameters is difficult to interpret and there for difficult to use. In a model with fewer parameters the interpretation will be easy, and we can use the information.

Q2: The predictor variables are A(water), and B (Nitrogen).

Q3: The expected biomass for the plant is 1.7. The calculation was for each factor use the values with the coefficients of each factor.

Q4: The expected biomass for the plant is 4.3. The calculation was for each factor use the values with the coefficients of each factor.

Q5: A simple liner regression has a single continuous predictor and response variable. A one-way ANOVA has a single categorical predictor with three or more level.

Q6: The deterministic component of this model equation is yi = a + B1xi + e is expected behavior on average with the absence of error.

Q7: The stochastic component of this model equation is yi = a + B1xi + e is the error that can occur.