

An economic entomologist observes the following average number of aphids per leaf in trees sprayed with insecticide, sprayed with only the oil base used to carry the insecticide, and not sprayed.

N = number of replicates in each category.

Not sprayed	13.2 aphids/leaf	(N = 20)
Oil base only	6.5 aphids/leaf	(N = 14)
Oil base + insecticide	6.2 aphid/leaf	(N = 15)

Assign a symbol to the response variable \_\_\_\_\_ = aphids/leaf

Assign a symbol to the explanatory variable \_\_\_\_\_

State in words one or more alternative hypotheses concerning the effects of spraying.

State in words the complementary null hypothesis or hypotheses.

State your alternative hypothesis or hypotheses in symbolic form.

State your null hypothesis or hypotheses in symbolic form.

Complete the first two columns of an ANOVA table for analysis of this experiment.

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