OrchardSprays R Documentation

# **Potency of Orchard Sprays**

# **Description**

An experiment was conducted to assess the potency of various constituents of orchard sprays in repelling honeybees, using a Latin square design.

## Usage

OrchardSprays

#### **Format**

A data frame with 64 observations on 4 variables.

- [,1] rowpos numeric Row of the design
- [,2] colpos numeric Column of the design
- [,3] treatment factor Treatment level
- [,4] decrease numeric Response

#### **Details**

Individual cells of dry comb were filled with measured amounts of lime sulphur emulsion in sucrose solution. Seven different concentrations of lime sulphur ranging from a concentration of 1/100 to 1/1,562,500 in successive factors of 1/5 were used as well as a solution containing no lime sulphur.

The responses for the different solutions were obtained by releasing 100 bees into the chamber for two hours, and then measuring the decrease in volume of the solutions in the various cells.

An  $8 \times 8$  Latin square design was used and the treatments were coded as follows:

A highest level of lime sulphur B next highest level of lime sulphur

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G lowest level of lime sulphur H no lime sulphur

Source

Finney, D. J. (1947) Probit Analysis. Cambridge.

### References

McNeil, D. R. (1977) Interactive Data Analysis. New York: Wiley.

# Examples

require(graphics)
pairs(OrchardSprays, main = "OrchardSprays data")