

Colour of spinage

Key words: Factor structure, Randomized blocks with three-way full factorial treatment structure.

Description

Spinage heated to 90 or 100 degrees Celcius was vacuum packed and stored for 0, 1 or 2 weeks before the packs were opened and chill stored in normal atmosphere for 0, 1 or 2 days. Then the colour was measured on a Hunter Lab. Two of the colour coordinates, a and b (measuring respectively something like red and yellow colour), were recorded and are given in the data set below. The variable `batch` is a blocking variable referring to two batches of spinage.

Number of observations: 36

| Variable | Description |
|----------|--|
| batch | Values A,B (blocking factor) |
| temp | Values 90,100(celcius) |
| weeks | Values 0,1,2 (pre-storage time) |
| days | Values 0,1,2 (post-chill-storage time) |
| a | measure of red colour intensity |
| b | measure of yellow colour intensity |

Source

The Royal Veterinary and Agricultural University, Denmark.

Analysis

Randomized block (fixed three-way treatment with interaction, random block) for each of the two variables.