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65/R/RBE101/DC/1 Winter Beans - Irrigation and Row Spacing

Rothamsted Research

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65/Dc/1

WINTER BEANS

(RBe 101)

Row spacing, seed rates, methods of fertiliser application and irrigation - Long Hoos V 1965.

Design: A single replicate of 4 x 2 x 2 x 2 x 2 in 8 blocks of 8 plots. Irrigation on one group of 4 blocks.

Area of each plot: 0.0172.

Treatments: All combinations of:-

- Blocks: 1. Irrigation: None, 1.3 ins. water.
Plots: 2. Row spacing: 10.5 ins. (C), 21 ins. (W).
3. Seed rates: 275 lb (L), 412 lb (H).
4. Fertiliser rates: 400 (F1), 560 (F2) lb compound 0:20:20, 500 (N1), 700 (N2) lb 6:15:15.
5. Methods of fertiliser application: Broadcast (B), placed (P).

Basal applications: Manures: None. Simazine at 0.5 lb in 40 gals on 2 occasions.

Cultivations, etc.: Ploughed: Oct 15, 1964. Seed drilled, fertilisers applied: Nov 2. Sprayed: Nov 6, 1964 and Mar 15, 1965. Irrigated: June 2. Combine harvested: Sept 28. Variety: Garton's Pedigree. Previous crops: Winter and spring wheat 1963, barley 1964.

NOTE: The crop was severely attacked by Black Fly (*Aphis fabae*) and by Chocolate Spot (*Botrytis cinerea*). The experiment was therefore abandoned and no yields were taken.