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Yields of the Field Experiments 1966

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66/R/RBE101/DC/1 Spring Beans - Irrigation and Row Spacing

Rothamsted Research

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66/Dc/1.1

SPRING BEANS

(FBe 101)

Row spacing, seed rates, methods of fertiliser application and irrigation - Long Hoos IV 1966.

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. Area harvested: 0.0110.

Treatments: All combinations of:-

- Groups of blocks: 1. Irrigation: None (O), 1 in. of water (I).
Plots: 2. Row spacing: 10.5 ins (C), 21 ins (W).
3. Seed rates: 200 lb (L), 300 lb (H).
4. Fertiliser forms and rates: 400 (F1), 560 (F2), compound (O:20:20), 500 (N1), 700 (N2) (6:15:15).
5. Methods of fertiliser application: Broadcast (B), placed (P).

Basal applications: Ground chalk at 27 cwt. Weedkiller: Simazine at 1 lb in 40 gals. Insecticide: Demeton-s-methyl (Metasystox at 12 fluid oz in 37 gals).

Cultivations, etc.: Ploughed: Oct 15, 1965. Ground chalk applied: Nov 4. Seed drilled, fertilisers applied: Feb 18, 1966. Simazine applied: Mar 4. Irrigated: June 7. Combine harvested: Sept 14. Variety: Spring Tick. Previous crops: Potatoes 1964, winter and spring wheat 1965.

Standard error per plot.
Grain: 2.94 or 7.2% (13 d.f.)

66/Dc/1.2

SUMMARY OF RESULTS

GRAIN

	F1	F2	N1	N2	Mean
Mean	40.4	40.5 (± 0.73)	41.1	40.4	40.6
O	40.3	41.6 (± 1.04)*	41.0	39.8	40.7
I	40.5	39.4	41.2	41.1	40.5
C	40.6	40.6 (± 1.04)	40.7	40.3	(± 0.52) 40.6
W	40.2	40.4	41.5	40.6	40.7
L	39.5	39.9 (± 1.04)	40.8	40.0	(± 0.52) 40.1
H	41.3	41.0	41.4	40.9	41.1
B	40.0	40.5 (± 1.04)	41.7	40.4	(± 0.52) 40.6
P	40.9	40.5	40.6	40.5	40.6

	C	W	L	H	B	P
O	(± 0.73)* 40.3	41.1	(± 0.73)* 39.9	41.4	(± 0.73)* 40.9	40.4
I	40.8	40.2	40.2	40.9	40.3	40.7
C			(± 0.73) 40.7	40.4	(± 0.73) 40.5	40.6
W			39.4	41.9	40.7	40.6
L					(± 0.73) 39.7	40.5
H					41.6	40.7

Mean D.M. %: 75.4

* For use in horizontal and interaction comparisons only.