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RESEARCH

Numerical Results of the Field Experiments 1970

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International Agricultural Experiments
Section
Long Ashton, Somerset
England, U.K.
1970
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1970
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70/R/BE/6 Spring Beans Seed Rates, Row Spacing and Growth Regulators

Rothamsted Research

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SPRING BEANS

(70/R/BE/6)

Seed rates, row spacing and growth regulators, Fosters O and E III
1970.

Design: 3 randomised blocks of 4 plots, split into 4.

Area of each plot: 0.0022. Area harvested: 0.0005.

Treatments: All combinations of:-

- Whole plots: 1. Seed rates: 200 (1), 400 (2) lb.
2. Distance between rows: 21 inches, sown by 'Smythe'
drill (W), 5.5 inches, sown by 'Tume' drill (C).
Sub plots: 3. Growth regulators: None (O), 'B9' at 4 lb a.i.
(B), 'F529' at 2 lb a.i. (F), 'JF2579' at 4 lb
a.i. (J). Each as a spray in 56 gals.

Basal applications: 360 lb (0:14:28) broadcast and rotary cultivated
in before sowing. Weedkiller: Simazine at 1 lb in 35 gals.
Insecticide: Demeton-s-methyl at 3.5 oz in 35 gals on 2 occasions.

Cultivations, etc.: Ploughed: 8 Oct - 3 Nov, 1969. Basal PK applied:
16 Apr, 1970. Rotary cultivated, seed drilled: 18 Apr. Weedkiller
applied: 24 Apr. Growth regulators applied: 11 June. Insecticide
applied: 17 June and 20 July. Harvested by hand: 11 Sept.
Variety: Tarvin. Previous crops: Barley 1968 and 1969.

NOTE: Stem heights were measured. Counts were made of numbers of
stems and pods. 1000 grain weights were measured.

Standard errors per plot. Grain, cwt:

Whole plot: 1.03 or 6.1% (6 d.f.)
Sub plot: 3.01 or 17.9% (24 d.f.)

70/R/BE/6

SUMMARY OF RESULTS

GRAIN: CWT

| | 1 | 2 | O | B | F | J | Mean |
|--------------|---------|------|-------------|------|------|------|---------|
| | (±0.60) | | (1) and (2) | | | | (±0.42) |
| W | 15.2 | 15.1 | 17.9 | 15.3 | 15.4 | 12.0 | 15.2 |
| C | 17.6 | 19.5 | 19.9 | 19.5 | 20.9 | 13.9 | 18.6 |
| | | | (1) and (2) | | | | (±0.42) |
| | | 1 | 19.1 | 16.5 | 17.4 | 12.7 | 16.4 |
| | | 2 | 18.7 | 18.3 | 19.0 | 13.2 | 17.3 |
| Mean (±0.87) | | | 18.9 | 17.4 | 18.2 | 13.0 | 16.9 |

Mean D.M. %: 79.7

- (1) (±1.15) For use in vertical and diagonal comparisons only
- (2) (±1.23) For use in horizontal and interaction comparisons only