Numerical Results of the Field Experiments 1970

[Full Table of Content](.)

70/R/BE/2 Spring Beans Effects of Aphids

Rothamsted Research

SPRING BEANS

(70/R/BE/2)

Effects of aphids, Pastures 1970.

Design: 5 randomised blocks of 6 plots.

Area of each plot: 0.0161. Area harvested: 0.0096.

Treatments: Insecticides:
   None   (O)
   Treated with 17 oz of phorate in granules:
      At start of flowering   (GE)
      At start and again at end of flowering   (GEL)
   Sprayed with demeton-s-methyl at 3.5 oz in 50 gals:
      At start of flowering   (SE)
      At end of flowering   (SL)
      At start and again at end of flowering   (SEL)

NOTE: Treatments O and SL were artificially infested with black
      aphids (Aphis fabae).

Basal applications: 360 lb (0:14:28) applied by 'Tume' drill across the
   plots: Ground chalk at 3 tons. Weedkillers: Paraquat at 0.5 lb ion
   in 20 gals. Simazine at 1 lb in 20 gals.

Cultivations, etc.: Paraquat applied: 2 Oct, 1969. Chalked: 1 Nov.
   Ploughed: 2 - 10 Dec. Basal PK applied: 22 Mar, 1970. Seed
   drilled at 200 lb: 26 Mar. Simazine applied: 19 Apr. 'Metasystox'
   applied to SE and SEL plots: 15 June, SL and SEL plots: 16 July.
   Phorate applied GE and GEL plots: 16 June, GEL plots: 7 July.
   Combine harvested: 4 Sept. Variety: Maris Bead. Previous crops:
   Winter wheat 1968, barley 1969.

NOTE: Aphid counts and estimates of plant growth were made once a
      week throughout the growing season.

Standard error per plot.
   Grain, cwt: 0.91 or 8.2% (20 d.f.)

269

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SUMMARY OF RESULTS

GRAIN: CWT

O	GE	GEL	SE	SL	SEL	Mean
		(±0.41)				
8.6	12.8	11.8	11.8	11.0	11.1	11.2

Mean D.M. %: 79.7

270