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# Yields of the Field Experiments 1974



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# 74/R/RN/9 Cereal Disease Reference Plots - Beans, Oats, Wheat

74/*R*/*R*/*9* Cereal Disease Reference Plots - Beans, Oats, Wheat, Rothamsted Research (1975) Yields Of The Field Experiments 1974, pp 104 - 105 - **DOI: https://doi.org/10.23637/ERADOC-1-119** 

# 74/R/RN/9

#### CEREAL DISEASE REFERENCE PLOTS

Object: To study the effects of intensive cereal cropping on the incidence of soil-borne diseases, especially in relation to seasonal variation - Pennell's Piece.

Sponsors: D.B. Slope, E.W. Broom, G.A. Salt.

The twelfth year, winter wheat, spring oats, beans.

For previous years see 63/C/10(t), 64-65/C/9, 66/C/7, 67-68/C/5 and 69-73/R/RN/9.

Design: 2 randomised blocks of 6 plots.

Whole plot dimensions: 17.1 x 4.27. Area harvested: 0.00479.

Treatments: Previous crops (1963-73):-

PREVCROP

# 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973

D	W	W	W	BE	0	W	W	W	BE	D	W/W/BE/O
W	W	W	BE	0	W	W	W	BE	0	W	W/BE/O/W
W	W	BE	0	W	W	W	BE	0	W	W	BE/O/W/W
W	BE	0	W	W	W	BE	0	W	W	W	
BE	D	W	W	W	BE	D	W	W	W	BE	-
W	W	W	W	W	W	W	W	W	W	W	W/W/W/W

where: W = wheat, BE = beans, O = oats

Standard applications:

Winter wheat: Manures: (0:14:28) at 270 kg, combine drilled, 'Nitro-Chalk' at 500 kg. Weedkillers: Chlortoluron ('Dicurane 80 WP' at 4.5 kg in 220 1), dicamba with mecoprop and MCPA ('Banlene Plus' at 5.6 l in 370 1).

Spring beans: Manures: (0:14:28) at 450 kg, placement drilled. Insecticide: Demeton-s-methyl at 0.25 kg in 220 l.

Spring oats: Manures: (0:14:28) at 270 kg, combine drilled, 'Nitro-Chalk' at 200 kg. Weedkiller: Dicamba with mecoprop and MCPA ('Tetralex-Plus' at 7.0 l in 220 l).

Seed: Winter wheat: Cappelle, sown at 200 kg. Spring beans: Minor, sown at 220 kg. Spring oats: Manod, sown at 190 kg.

## 74/R/RN/9

- Cultivations, etc.:- All plots: Ploughed: 17 Sept, 1973. Winter wheat: Power harrowed, seed sown: 15 Oct. 'Dicurane' applied: 22 Oct. N applied: 22 Mar, 1974. 'Banlene Plus' applied: 6 May. Combine harvested: 27 Aug.
  - Spring beans: Power harrowed: 27 Mar, 1974. Seed sown and springtine cultivated: 27 Mar. Insecticide applied: 13 June. Combine harvested: 14 Oct.

Spring oats: Power harrowed: 27 Mar, 1974. Seed sown: 28 Mar. N applied: 8 Apr. Weedkiller applied: 28 May. Combine harvested: 27 Aug.

NOTES: (1) Yields were taken for winter wheat only.

(2) Estimates were made in July of incidence of take-all (Gaeumannomyces graminis) and eyespot (Cercosporella herpotrichoides) in the wheat.

### TABLES OF MEANS

#### WINTER WHEAT

### GRAIN: TONNES/HECTARE

	PREV	CROP		Mean
W/W/BE/O	W/BE/O/W	BE/O/W/W	w/w/w/w	
6.28	5.70	5.79	5.67	5.86

Mean D.M.% 83.6