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72/R/RN/9 Cereal Disease Reference Plots - W. Wheat, S. Wheat, Oats, Beans

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72/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.

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

For previous years see 63/C/10(t), 64-65/C/9, 66/C/7, 67-68/C/5 and 69-71/R/RN/9.

Whole plot dimensions: 17.1 x 4.27. Area harvested: Winter wheat: 0.00479, Spring wheat: 0.00473.

Seed: Winter wheat: Cappelle sown at 200 kg.
Spring wheat: Kolibri sown at 190 kg.
Oats: Manod sown at 190 kg.
Beans: Maris Bead sown at 220 kg.

Cultivations, etc.: - All plots sprayed with paraquat at 0.56 kg ion in 220 1: 10 Sept, 1971. Ploughed: 22 Sept.
Winter wheat: Seed combine drilled: 8 Oct, 1971. N applied: 4 Apr, 1972. Sprayed with ioxynil at 0.63 kg and mecoprop at 1.9 kg in 220 1: 28 Apr. Combine harvested: 31 Aug.
Spring wheat: Seed combine drilled: 22 Mar, 1972. N applied: 4 Apr. Sprayed with ioxynil at 0.53 kg and mecoprop at 1.6 kg in 220 1: 19 May. Combine harvested: 5 Sept.
Oats: Seed combine drilled: 18 Mar, 1972. N applied: 4 Apr. Combine harvested: 31 Aug.
Beans: Seed placement drilled: 22-Mar, 1972. Sprayed with demeton-s-methyl at 0.25 kg in 440 1: 24 June. Combine harvested: 27 Sept.

NOTES: (1) Yields were taken for winter and spring wheat only (crop sequences 2, 3, 4 and 6).
(2) Estimates were made in spring and summer of incidence of take-all (*Gaeumannomyces graminis* formerly *Ophiobolus graminis*) and eyespot (*Cercospora herpotrichoides*).

72/R/RN/9

TABLES OF MEANS

GRAIN: TONNES/HECTARE

CROP SEQUENCE

Crop in	2	3	4	6	
1963	W	W	BE	W	
1964	W	BE	O	W	
1965	BE	O	W	W	
1966	O	W	W	W	
1967	W	W	W	W	
1968	W	W	BE	W	
1969	W	BE	O	W	
1970	BE	O	W	W	
1971	O	W	W	W	Mean
WINTER WHEAT					
	5.68	5.44	5.80	5.30	5.55
SPRING WHEAT					
	3.06	2.10	3.35	2.42	2.73

Mean D.M. %: Winter wheat: 85.6
 Spring wheat: 82.5