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71/R/RN/9 Cereal Disease Reference Plots - W. Wheat, S. Wheat

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71/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.

The ninth 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 69-70/R/RN/9.

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

Cultivations, etc.: Ploughed: 7 Sept, 1970. All plots except winter wheat plots sprayed with paraquat at 0.56 kg ion in 225 l: 4 Feb, 1971.

Winter wheat: Seed combine drilled at 202 kg: 9 Oct, 1970. Sprayed with terbutryne and related triazines ('Prebane' at 4.48 kg in 225 l): 10 Oct. N applied: 24 Mar, 1971. Sprayed with ioxynil at 0.63 kg and mecoprop at 1.90 kg in 225 l: 15 Apr. Combine harvested: 24 Aug. Variety: Cappelle.

Spring wheat: N applied: 24 Mar, 1971. Seed combine drilled at 191 kg: 31 Mar. Sprayed with ioxynil octanoate, bromoxynil octanoate and the iso-octyl ester of dichlorprop ('Oxytril P' at 1.4 l in 225 l): 11 May. Combine harvested: 1 Sept. Variety: Kolibri.

Oats: Seed combine drilled at 191 kg: 4 Mar, 1971. N applied: 24 Mar. Combine harvested: 16 Aug. Variety: Manod.

Spring beans: Seed placement drilled at 224 kg: 4 Mar, 1971. Sprayed with demeton-s-methyl at 245 g in 438 l: 1 July. Combine harvested: 2 Sept. Variety: Maris Bead.

- NOTES: (1) Yields were taken for winter and spring wheat only (Crop sequences 3, 4, 5 and 6).
(2) Estimates were made in spring and summer of incidence of take-all (*Ophiobolus graminis*) and eyespot (*Cercospora herpotrichoides*).

71/R/RN/9

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

Crop in	C3	C4	C5	C6	
1963	W	BE	O	W	
1964	BE	O	W	W	
1965	O	W	W	W	
1966	W	W	W	W	
1967	W	W	BE	W	
1968	W	BE	O	W	
1969	BE	O	W	W	
1970	O	W	W	W	Mean
WINTER WHEAT					
	5.85	6.76	6.65	6.61	6.47
SPRING WHEAT					
	3.95	3.85	3.65	3.44	3.72

Mean D.M. %: Winter wheat: 78.9
 Spring wheat: 81.5