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Numerical Results of the Field Experiments 1970

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

Rothamsted Research

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CEREAL DISEASE REFERENCE PLOTS

(70/R/RN/9)

Pennells Piece 1970, the eighth year, winter and spring wheat.
For treatments etc., see 'Results' 63/C/10 (W = Wheat,
O = Oats, BE = Spring beans).

Area of each plot: 0.0180. Area harvested: 0.0118.

Cultivations, etc.: Sprayed with paraquat at 0.5 lb ion in 20 gals:
18 Sept, 1969. Ploughed: 19 Sept.

Winter wheat: Rotary cultivated: 15 Oct, 1969. Seed combine
drilled at 180 lb, plots sprayed with terbutryne and related
triazines ('Prebane' at 4 lb in 20 gals): 17 Oct. N applied:
25 Mar, 1970. Sprayed with 2,4-D at 0.5 lb and dichlorprop
at 2 lb in 20 gals: 13 May. Combine harvested: 26 Aug.

Spring wheat: Seed combine drilled at 170 lb: 22 Apr, 1970.
N applied: 24 Apr. Sprayed with ioxynil at 7.5 oz and
mecoprop at 22.5 oz in 20 gals: 27 May. Combine harvested:
28 Aug.

Oats: Seed combine drilled at 170 lb: 17 Apr, 1970. N applied:
24 April. Combine harvested: 15 Aug.

Spring beans: Seed placement drilled at 200 lb: 21 Mar, 1970.
Phorate at 17 oz in granules applied: 16 June. Combine
harvested: 4 Sept.

- NOTES: (1) Yields were taken for winter and spring wheat only-
(Crop sequences 1, 4, 5 and 6).
(2) Estimates were made in spring and summer of the
incidence of take-all (*Ophiobolus graminis*) and
eyespot (*Cercospora herpotrichoides*).
(3) For previous years' results see 'Results' 63/C/10,
64/C/9, 65/C/9, 66/C/7, 67/C/5, 68/C/5 and 69/R/RN/9.

70/R/RN/9

SUMMARY OF RESULTS

GRAIN: CWT

Crop in	C1	C4	C5	C6	
1963	W	BE	O	W	
1964	W	O	W	W	
1965	W	W	W	W	
1966	BE	W	W	W	
1967	O	W	BE	W	
1968	W	BE	O	W	
1969	W	O	W	W	Mean

WINTER WHEAT

42.0	43.7	44.4	39.8	42.5
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SPRING WHEAT

16.7	23.8	22.1	19.2	20.4
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Mean D.M. %: Winter wheat: 83.9
 Spring wheat: 84.2