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Numerical Results of the Field Experiments 1968

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68/C/5 Cereal Disease Reference Plots - W. Wheat, S. Wheat

Rothamsted Research

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68/C/5.1

CEREAL DISEASE REFERENCE PLOTS

(AQ)

Pennells Piece 1968, the sixth year

For treatments etc., see 'Results' 63/C/10 (WW = Winter wheat, SW = Spring wheat, O = Oats, Be = Spring beans).

Area of each plot: 0.0180. Area harvested: Winter wheat - 0.0115, spring wheat - 0.0115.

Cultivations, etc.: Sprayed plots 1 - 12 (winter wheat blocks) with aminotriazole at 4 lb and ammonium thiocyanate at 3.7 lb in 32 gals: 21 Sept, 1967. Ploughed: 23 Oct. Plots 1 - 12 rotary cultivated: 25 Oct.

Winter wheat: Seed combine drilled at 180 lb: 25 Oct, 1967. 'Nitro-Chalk' applied: 18 Mar, 1968. Sprayed with ioxynil at 7.5 oz and mecoprop at 22.5 oz in 20 gals: 27 Apr. Combine harvested: 24 Aug.

Spring wheat: Seed combine drilled at 175 lb: 6 Mar, 1968. 'Nitro-Chalk' applied: 18 Mar. Sprayed with ioxynil at 7.5 oz and mecoprop at 22.5 oz in 20 gals: 15 May. Combine harvested: 24 Aug.

Oats: Seed combine drilled at 165 lb: 8 Mar, 1968. 'Nitro-Chalk' applied: 18 Mar. Sprayed with ioxynil at 7.5 oz and mecoprop at 22.5 oz in 20 gals: 15 May. Combine harvested: 24 Aug.

Spring beans: Seed placement drilled at 200 lb: 6 Mar, 1968. 1.04 lb phorate applied in granules: 21 June. Combine harvested: 6 Sept.

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

68/c/5.2

SUMMARY OF RESULTS

GRAIN

Crop in 1963	W	W	W	W	
1964	W	W	Be	W	
1965	W	Be	O	W	
1966	Be	O	W	W	
1967	O	W	W	W	
					Mean

WINTER WHEAT

37.1	34.7	30.1	28.8	32.7
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SPRING WHEAT

24.2	27.3	25.2	26.1	25.7
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Mean D.M. %: Winter wheat: 84.1
Spring wheat: 81.3