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Yields of the Field Experiments 1955

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55/R/CA/1 Winter Wheat - Eyespot Rotation, Varieties, Seed Rates and N - 2nd Year

Rothamsted Research

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55/Ca/1.1

WINTER WHEAT

The effects of Crop sequences, Varieties, Seed rates and Nitrogen on the incidence of Eyespot (Cercospora herpotrichoides) - Long Hoos I, II and III, 1955. The 2nd preliminary year.

For details of treatments and crop sequences etc., see "Results of the Field Experiments 1954", Section 54/Ca/2.1 with the exception that in 1955 the seed rates were changed to

Holdfast: $1\frac{1}{2}$, 3 bushels per acre
Cappelle: 2, 4 bushels per acre,

in order to give approximately the same number of seeds of each variety per acre.

Area of each plot: 0.0212 acre. Area harvested: 0.0140 acre.

Cultivations, etc.: Ploughed: Oct 8, 1954. Seed combine drilled: Oct 15. 1st application of nitrochalk: Mar 15, 1955. 2nd application: May 9. Combine harvested: Aug 19.

Standard error per plot:

Grain (at 85% D.M.): 1.92 cwt per acre or 5.8% (12 d.f.)

Records of incidence of disease (Eyespot and Take-All), estimates of % area lodged, and counts of plant, shoot and straw numbers were made.

55/Ca/1.2

Summary of Results

Response to	Responses to treatments						
	Mean	Variety		Seed rate		Nitrogen:	
		Hold- fast	Capp- elle	Single	Double	0.46	0.93

Grain (at 85% Dry Matter)

<u>Previous crop wheat:</u>	Mean yield 17.1 cwt per acre						
	(±0.96)						(±1.36)
Variety (Cappelle - Holdfast)	+6.5	-	-	+7.1	+5.9	+4.8	+8.2
Seed rate (Double - Single)	-0.8	-0.2	-1.4	-	-	-1.6	0.0
Nitrogen (0.93 - 0.46)	+3.6	+1.9	+5.3	+2.8	+4.4	-	-

<u>Previous crop potatoes:</u>	Mean yield 49.3 cwt per acre						
	(±0.96)						(±1.36)
Variety (Cappelle - Holdfast)	+12.9	-	-	+12.8	+13.0	+9.9	+15.9
Seed rate (Double - Single)	+3.3	+3.2	+3.4	-	-	+2.8	+3.8
Nitrogen (0.93 - 0.46)	+5.6	+2.6	+8.6	+5.1	+6.1	-	-

Straw

<u>Previous crop wheat:</u>	Mean yield 24.3 cwt per acre						
Variety (Cappelle - Holdfast)	+4.3	-	-	+4.1	+4.5	+8.3	+0.3
Seed rate (Double - Single)	+0.5	+0.3	+0.7	-	-	+0.7	+0.3
Nitrogen (0.93 - 0.46)	+8.1	+12.1	+4.1	+8.3	+7.9	-	-

<u>Previous crop potatoes:</u>	Mean yield 42.0 cwt per acre						
Variety (Cappelle - Holdfast)	-2.5	-	-	-4.3	-0.7	-3.2	-1.8
Seed rate (Double - Single)	+5.3	+3.5	+7.1	-	-	+2.8	+7.8
Nitrogen (0.93 - 0.46)	+4.2	+3.5	+4.9	+1.7	+6.7	-	-

General means. Grain: 33.2 cwt per acre
 Straw: 33.2 cwt per acre

Mean dry matter % as harvested, Grain: 81.8