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Yields of the Field Experiments 1953

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53/CA/3 Wheat - Eyespot, Varieties, Seed Rates and N - Rothamsted

Rothamsted Research

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53/Ca/3

WHEAT

The effect of varieties, seed rates and N on the incidence of Eyespot - Great Field I 1953.

System of replication: 4 randomized blocks of 8 plots each, certain high order interactions and the effect of spraying being confounded with block differences.

Area of each plot: 0.0197 acre. Area harvested: 0.0129 acre.

Treatments: All combinations of:

Varieties: Hybrid 46; Yeoman; Cappelle; Scandia.
 Seed rates: 1½; 3 bushels per acre.
 Nitrogen: 0.4; 0.8 cwt N per acre as sulphate of ammonia applied in spring.
 Spraying (on blocks): None; 100 gallons of 12½% Sulphuric acid per acre.

Basal dressing: None

Cultivations, etc.: Ploughed: Sept 2, 1952. Seed drilled: Oct 24.
 Sprayed with sulphuric acid: Mar 4, 1953. Sulphate of ammonia applied: Mar 5. Combine harvested: Sept 9. Previous crop: Wheat.

Standard error per plot:

Grain: 3.50 cwt per acre or 15.0% (11 d.f.)

Summary of Results

Grain: cwt per acre

	Variety				Seed rate:		N:		Mean
	Hybrid 46	Yeoman	Cappelle	Scandia	bu. per acre		cwt per acre		
	(±1.79)*				(±1.27)*				
Unsprayed	22.0	22.5	24.9	24.6	24.1	22.9	21.7	25.4	23.5
Sprayed	26.9	22.2	24.7	24.1	25.5	23.4	23.7	25.2	24.5
Mean	24.5	22.3	24.8	24.3	24.8	23.2	22.7	25.3	24.0
	(±1.27)				(±0.90)				
	Variety				(±1.79)				
	Hybrid 46				25.0	24.0	22.5	26.5	
	Yeoman				24.2	20.5	20.5	24.2	
	Cappelle				24.9	24.7	23.7	25.9	
	Scandia				25.1	23.5	24.0	24.6	
							(±1.27)		
	Seed rate:								
	bushels per acre				1.5		23.0	26.6	
					3.0		22.3	24.0	

*For use in horizontal and interaction comparisons only

N.B. Records of incidence of disease (Eyespot and Take-all) and counts of plant shoot and straw numbers were made. Estimates of % area lodged were also recorded.