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Yields of the Field Experiments 1957

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57/R/CA/3 Spring Wheat - Control of Take-all and Weeds

Rothamsted Research

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57/Ca/3

SPRING WHEAT

Take-All (*Ophiobolus graminis*) and weed control - Highfield 1957.

Design: 4 randomized blocks of 3 plots each, plots being split into 3 for treatment crops in 1956.

Area of each sub plot: 0.0069 acres.

Treatments:

Whole plots. To 1957 wheat: None; hand hoed; sprayed with 4-chloro-2 methyl phenoxy propionic acid (MCPP) at 6 pints per acre.

Sub plots. Treatment crops 1956: Wheat (Cappelle); oats (S.172); $\frac{1}{2}$ wheat $\frac{1}{2}$ oats; all at 4 bushels per acre.

Basal dressing: $2\frac{1}{2}$ cwt compound fertilizer (12% N, 9% P₂O₅, 9% K₂O) per acre, combine drilled with seed.

Cultivations, etc.: Ploughed: Oct 19, 1956 and again Jan 19, 1957.
Seed combine drilled at $3\frac{1}{2}$ bushels per acre: Mar 19. Sprayed 'S' plots with MCPP at 6 pints in 40 gallons per acre: May 23.
Combine harvested: Aug 27. Variety: Koga II.

Standard errors per plot, Grain (at 85% dry matter):

Whole plot: 1.28 cwt per acre or 4.0% (6 d.f.)

Sub plot: 0.75 cwt per acre or 2.3% (18 d.f.)

Summary of Results

Grain (at 85% dry matter): cwt per acre

Treatments to 1957 wheat	Crop in 1956			Mean
	Wheat	Oats	$\frac{1}{2}$ wheat $\frac{1}{2}$ oats	
	(1) and (2)			(±0.63)
None	31.1	34.3	31.3	32.2
Hand hoed	30.9	33.7	31.0	31.9
Sprayed	31.8	35.6	32.8	33.4
Mean (±0.21)	31.3	34.5	31.7	32.4

(1) ±0.37 for use in horizontal comparisons only.

(2) ±0.71 for use in all other comparisons.

Mean dry matter % as harvested: 81.6

Note. Counts of plant and ear numbers, and estimates of incidence of Take-All and weeds were made.