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Yields of the Field Experiments 1966

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66/W/WBW/C/33 Direct Seeding - Spring Wheat

Rothamsted Research

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66/c/33.1

SPRING WHEAT

(WBW)

Direct seeding, Woburn White Horse Field 1966, the first year.

Design: 4 randomised blocks of 4 plots split into 2.

Area of each sub plot: 0.0149. Area harvested: 0.0071.

Treatments: All combinations of:-

- Whole plots: 1. Seedbed preparation: Direct seeding after aminotriazole 4 lb and ammonium thiocyanate at 3.7 lb in 40 gals in autumn, paraquat at 2 lb ion in 40 gals in spring (S). Normal cultivations (P).
2. Seed dressing: No insecticide, fungicide only (IO). Combined insecticide and fungicide (I).
- Sub plots: 3. Insecticide spray: None (DO), diazinon at 3.8 lb a.i. plus chlordane at 7.6 lb a.i. plus DDT at 6.1 lb a.i. plus zinophos at 3.4 lb a.i. in 40 gals (DD).

Basal applications: 3 cwt (20:10:10) combine drilled. Weedkiller: Mecoprop/2,4-D (Methoxone Extra at 6 pints in 35 gals).

Cultivations, etc.: Aminotriazole and ammonium thiocyanate applied: Oct 15, 1965. 'P' plots ploughed: Jan 27 - 28, 1966. Insecticide and paraquat applied: Mar 14. Seed combine drilled at 180 lb: Mar 18. Mecoprop/2,4-D applied: May 12. Combine harvested: Sept 7. Variety: Kloka. Previous crop: Grass for at least five years.

Standard errors per plot. Grain:
Whole plot: 2.89 or 6.4% (9 d.f.)
Sub plot: 2.87 or 6.3% (12 d.f.)

66/c/33.2

SUMMARY OF RESULTS

GRAIN

	O	I	DO	DD	Mean
	(±1.44)		(1) and (2)		(±1.02)
S	43.5	46.6	44.0	46.1	45.1
P	46.6	44.9	44.7	46.8	45.8
			(1) and (2)		
	O		43.5	46.6	45.0
	I		45.3	46.3	45.8
	Mean (±0.72)		44.4	46.4	45.4

Mean D.M. %: 83.0

(1) (±1.25) For use in vertical and diagonal comparisons

(2) (±1.01) For use in horizontal and interaction comparisons