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67/R/EB/C/37 Chemical Control of Take-all - Winter Wheat

Rothamsted Research

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67/C/37.1

WINTER WHEAT

(EB)

Chemical control of take-all (*Ophiobolus graminis*) - Claycroft 1967.

Design: 3 randomised blocks of 20 plots.

Area of each plot: 0.0040. Area harvested: 0.0021.

Treatments: None, 125 lb kaolin dust applied (O) - two plots per block, and all combinations of:-

1. Chemicals:

- DAC 2787 (tetrachloroisophthalonitrile) (A)
- Du Pont 1823 (1,4-dichloro-2,5-dimethoxybenzene) (B)
- Triphenyltin chloride (C)
- 'Cela A36' (D)
- 1-phenyl-3-thiosemicarbazide (E)
- Triamiphos, (5-amino-1-(bisdimethylaminophosphinyl)-3-phenyl-1,2,4 triazole) (F)

2. Rates of application in lb:

A	B	C	D	E	F	
2.5	1.25	0.25	0.5	1.25	0.9	(R1)
10.0	5.0	1.0	2.0	5.0	1.8	(R2)
40.0	20.0	4.0	8.0	20.0	3.6	(R3)

Treatments A to E were made up with kaolin dust to the standard quantity for application at 125 lb. Treatment F was applied as a wettable powder spray at 70 gals.

Basal applications: 340 lb (6:15:15) combine drilled. 1.2 cwt N as 'Nitro-Chalk' in spring. Weedkiller: Aminotriazole at 4 lb and ammonium thiocyanate at 3.7 lb in 40 gals.

Cultivations, etc.: Weedkiller applied: Sept 20, 1966. Ploughed: Oct 6. Treatments A to E and O applied: Oct 17. Seed drilled at 165 lb: Oct 27. Treatment F applied: Mar 7, 1967. Basal 'Nitro-Chalk' applied: Apr 19. Combine harvested: Aug 30. Variety: Cappelle. Previous crops: Barley 1965 and 1966.

NOTE: Samples were taken in May and July for the estimation of take-all (*Ophiobolus graminis*), eyespot (*Cercospora herpotrichoides*), sharp eyespot (*Rhizoctonia solani*), and brown root rot.

Standard error per plot.

Grain: 3.29 or 7.9% (34 d.f.)

67/C/37.2

SUMMARY OF RESULTS

GRAIN

	A	B	C	D	E	F	Mean
	(±1.90)						(±0.77)
R1	42.1	43.5	39.8	41.5	42.5	42.5	42.0
R2	45.6	42.6	39.2	36.9	40.7	40.4	40.9
R3	41.6	40.1	42.1	41.5	45.0	42.8	42.2
Mean (±1.10)	43.1	42.1	40.4	40.0	42.7	41.9	41.7

O 43.1 (±1.34)

Mean D.M. % (all plots): 85.1