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Numerical Results of the Field Experiments 1970

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70/R/B/1 Barley Systemic Fungicides

Rothamsted Research

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BARLEY

(70/R/B/1)

Systemic fungicides, Harwoods Piece 1970.

Design: 3 randomised blocks of 7 plots.

Area of each plot: 0.0060. Area harvested: 0.0021.

Treatments: Systemic fungicides (shown below in lb of active ingredient, except where described otherwise):

Fungicide	Seed dressing	Spray	Symbol
None	None	None	(O)
50% benomyl	0.25	1.00	(B)
80% ethirimol	1.00	1.00	(E)
50% furidazole	0.03	1.00	(F)
'E.L.273' (4 % a.i.)	0.03	0.08	(L)
50% thiophanate methyl	1.20	1.50	(T)
'W524' (83.4 % a.i.)	0.375	*2.85 fluid oz a.i.	(W)

Each applied as a seed dressing, and twice at above rates as a spray in 35 gals (except treatment W, which was in 70 gals), the first spray at growth stage 7, the second at growth stage 10.2.

*The formulation of 'W524' used for the spray contained 20% a.i.

Basal applications: 450 lb (20:10:10) combine drilled. Weedkiller: Tri-allate at 1.25 lb in 20 gals.

Cultivations, etc.: Ploughed: 27 Oct, 1969. Weedkiller applied: 19 Apr, 1970. Seed combine drilled at 140 lb: 22 Apr. Fungicide sprays applied: 8 June (GS7), 23 June (GS10.2). Combine harvested: 13 Aug. Variety: Zephyr. Previous crops: Spring wheat 1968 and 1969.

NOTE: Estimates were made of root diseases, mildew (*Erysiphe graminis*), brown rust (*Puccinia anomala*), and loose smut (*Ustilago nuda*).

Standard error per plot.

Grain, cwt: 3.09 or 8.3% (12 d.f.)

70/R/B/1

SUMMARY OF RESULTS

GRAIN: CWT

O	B	E	F	L	T	W	Mean
			(±1.78)				
36.8	40.8	37.3	36.8	34.6	38.1	36.5	37.3

Mean D.M. %: 83.5