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72/R/B/9 Barley Fungicides

Rothamsted Research

Rothamsted Research (1973) *72/R/B/9 Barley Fungicides* ; Yields Of The Field Experiments 1972, pp 315 - 316 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/R/B/9

BARLEY

FUNGICIDES

Object: To study the effects of three fungicides applied as seed dressings and one as a spray on yields and pathogens of barley - West Barnfield II.

Sponsors: J. Jenkyn, R.D. Prew.

Design: 3 randomised blocks of 5 plots.

Whole plot dimensions: 2.13 x 13.4. Area harvested: 0.00195.

Treatments: Fungicide (F)

None	(O)
Seed dressings: Organo-mercury at 350 g	(M)
'Vitavax' plus thiram at 350 g	(V)
BAS 3302 at 314 g	(BB)
Spray: BAS 3170F at 1.12 kg a.i. in 674 l	(BA)

Rates given for seed dressings are of commercial formulations.

Basal applications: 500 kg (20:10:10) combine drilled. Weedkillers: Paraquat at 0.42 kg ion in 220 l on 2 occasions. Ioxynil, bromoxynil, 2,4-DP and MCPA ('Tetroxone' at 5.6 l in 220 l).

Seed: Sultan (infected with loose smut, undressed apart from treatments) sown at 160 kg.

Cultivations, etc.: - Paraquat applied: 24 and 30 Sept, 1971. Ploughed: 12 Nov. Seed combine drilled: 24 Mar, 1972. 'Tetroxone' applied: 8 May. BAS 3170F applied: 23 June. Combine harvested: 22 Aug. Previous crops: Winter wheat 1970, barley 1971.

NOTE: Seedling emergence counts were made, and samples taken for root diseases in May and July. Mildew (*Erysiphe graminis*) was assessed in mid-June and late July and loose smut (*Ustilago nuda*) and brown rust (*Puccinia hordei*) in July.

Standard error per plot.

Grain, tonnes/hectare: 0.190 or 4.2% (8 d.f.)

72/R/B/9

TABLE OF MEANS

GRAIN: TONNES/HECTARE

F					
O	M	V	BB	BA	Mean
4.56	4.29	4.57	4.66	4.62	4.54

STANDARD ERROR OF DIFFERENCES

F 0.155

Mean D.M. %: 86.2