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71/R/B/10 Systemic Fungicides - Barley

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71/R/B/10

BARLEY

SYSTEMIC FUNGICIDES

Object: To study the effects of a range of fungicides on yield and pathogens of barley - Drapers.

Design: 3 randomised blocks of 10 plots.

Whole plot dimensions: 4.27 x 13.4. Area harvested: 0.00190.

Treatments:

No fungicidal treatment	(O)
Seed dressings per kg of seed:	
3191 F at 2 g	(BA)
3191 F plus confidential ingredient, at 3 g	(BAC)
3200 F at 4 g	(BB)
Organo-mercury at 2.2 g	(ME)
MC 833 at 2.0 g	(MC)
'Vitavax' plus thiram, at 2.2 g	(VT)
NF 48 at 24 g	(NF)
'Vitavax' plus organo-mercury, at 2.2 g	(V)
Soil drench after sowing:	
Sandoz Fungicide at 11.0 l a.i. in 5600 l	(SF)

Basal applications: 505 kg (20:10:10) combine drilled. Weedkillers: Paraquat at 0.28 kg ion in 225 l.

Cultivations, etc.: Paraquat applied: 23 Sept, 1970. Ploughed: 3 Oct. Seed combine drilled at 157 kg: 26 Mar, 1971. Soil drench applied: 29 Mar. Combine harvested: 19 Aug. Variety: Sultan. Previous crops: Barley 1969 and 1970.

NOTE: Samples were taken for mildew (*Erysiphe graminis*), brown rust (*Puccinia hordei*), smut (*Ustilago nuda*) and root diseases.

Standard error per plot.

Grain, tonnes/hectare: 0.285 or 7.3% (18 d.f.)

71/R/B/10

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

O	BA	BAC	BB	ME	MC	VT	NF	V	SF	Mean
(± 0.165)										
3.69	3.66	3.09	4.38	3.95	4.01	3.63	4.83	4.11	3.72	3.91

Mean D.M.%: 82.0