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## Yields of the Field Experiments 1971

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### 71/R/B/11 Methods of Applying Systemic Fungicides - Barley

#### Rothamsted Research

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71/R/B/11

BARLEY

METHODS OF APPLYING SYSTEMIC FUNGICIDES

Object: To study the effects on yield and pathogens of barley of different times and methods of applying systemic fungicides - Drapers.

Design: 3 randomised blocks of 11 plots.

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

Treatments:

No fungicidal treatment	(O)
Seed dressings per kg of seed:-	
Organo-mercury plus 'Vitavax', at 2.2 g	(MD)
EL273 at 33.6 g a.i.	(ED)
Thiophanate methyl at 1.35 Kg a.i.	(TD)
W524 at 0.77 kg a.i.	(WD)
Foliar sprays, each applied early (E) or late (L)	
EL273 at 44.5 ml a.i. in 337 l	(ES)
Thiophanate methyl at 1.68 kg a.i. in 337 l	(TS)
W524 at 0.4 l a.i. in 674 l	(WS)

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: 25 Oct - 18 Dec. Seed combine drilled at 157 kg: 26 Mar, 1971. 2,4-D/dichlorprop applied: 10 May. Sprays applied: E - 17 May, L - 15 June. 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: 0.210 or 5.0% (20 d.f.)

71/R/B/11

SUMMARY OF RESULTS

GRAIN: TONNES/HECTARE

O	MD	ED	TD	WD	ESE	ESL	TSE	TSL	WSE	WSL	Mean
(±0.121)											
3.90	3.87	4.04	4.26	4.39	4.60	4.15	4.41	4.28	4.73	3.93	4.23

Mean D.M. %: 82.1