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Yields of the Field Experiments 1989



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Rothamsted Research

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89/R/SU/3

SUNFLOWERS

METHODS OF APPLYING FUNGICIDES

Object: To study the effects of mist-blown application of fungicide on the control of Botrytis and on yield of sunflowers - Long Hoos I/II.

Sponsors: C.J. Rawlinson, V.J. Church, R.A. Gutteridge.

Design: 2 separated 3 \times 3 Latin squares with complete directional neighbour balance.

Whole plot dimensions: 2.5 x 10.0.

Treatments:

SPRAYER Sprayers:

NONE None

HYDRAUL Standard hydraulic sprayer

MIST BLO Mist blower

NOTE: The sprayers applied prochloraz at 0.50 kg with vinclozolin at 0.50 kg in 220 l on 12, 18 and 19 July, 1989.

Basal applications: Manures: (0:18:36) at 925 kg. 'Nitram' at 150 kg.
Weedkillers: Glyphosate at 1.4 kg in 200 l. Trifluralin at 1.1 kg in
220 l. Linuron at 0.50 kg in 220 l. Desiccant: Diquat at 0.60 kg
ion in 220 l.

Seed: S47, sown at 120,000 seeds per hectare.

Cultivations, etc.:- PK applied: 28 Sept, 1988. Glyphosate applied: 22 Oct. Ploughed: 16 Dec. N applied: 14 Apr, 1989. Trifluralin applied, rotary cultivated: 20 Apr. Seed sown: 28 Apr. Rolled: 2 May. Linuron applied: 4 May. Irrigated 12 mm: 9 June. Hand harvested: 22 Aug. Previous crops: W. wheat 1987, s. beans 1988.

NOTE: The plots were covered by a bird-proof net from early May to maturity. Growth stages were monitored throughout the season.

Botrytis was assessed in August. Plants were counted before harvest.

89/R/SU/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

**** Tables of means ****

 SPRAYER
 NONE
 HYDRAUL
 MIST BLO
 Mean

 2.60
 2.65
 2.63
 2.62

*** Standard errors of differences of means ***

SPRAYER

0.087

***** Stratum standard errors and coefficients of variation *****

Stratum	d.f.	s.e.	CV%
SQUARE.ROW	4	0.186	7.1
SQUARE.COL	4	0.087	3.3
SQUARE.ROW.COL	6	0.151	5.7

GRAIN MEAN DM% 77.9

PLOT AREA HARVESTED 0.00200