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## Yields of the Field Experiments 1989

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### 89/R/SU/3 Methods of Applying Fungicides - Sunflowers

#### Rothamsted Research

Rothamsted Research (1990) *89/R/SU/3 Methods of Applying Fungicides - Sunflowers* ; Yields Of The Field Experiments 1989, pp 196 - 197 - DOI: <https://doi.org/10.23637/ERADOC-1-40>

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 x 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 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