

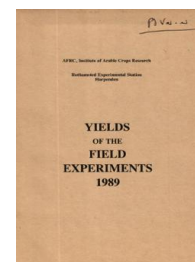
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1989

[Full Table of Content](#)



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