

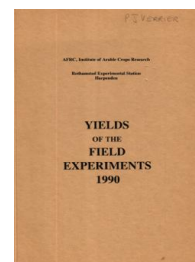
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1990

[Full Table of Content](#)



90/R/SU/3 Methods of Applying Fungicides - Sunflowers

Rothamsted Research

Rothamsted Research (1991) *90/R/SU/3 Methods of Applying Fungicides - Sunflowers* ; Yields Of The Field Experiments 1990, pp 147 - 148 - DOI: <https://doi.org/10.23637/ERADOC-1-42>

90/R/SU/3

SUNFLOWERS

METHODS OF APPLYING FUNGICIDES

Object: To compare the effects of mist-blown and hydraulic applications of fungicide on the control of Botrytis and on the yield of sunflowers - Great Harpenden I.

Sponsors: V.J. Church, C.J. Rawlinson.

Design: 6 randomised blocks of 4 plots.

Whole plot dimensions: 3.5 x 10.0.

Treatments:

SPRAYER	Sprayers:
NONE	None
HYD	Standard hydraulic sprayer
HYD DLN	Hydraulic sprayer with drop leg nozzles
MIST BLO	Mist blower

NOTE: The sprayers applied carbendazim at 0.15 kg and prochloraz at 0.40 kg with vinclozolin at 0.75 kg in 440 l in HYD and MIST BLO and in 600 l in HYD DLN on 17 and 25 July, 1990.

NOTE: Plots were netted against birds from sowing until harvest.

Basal applications: Manures: (13:13:21) at 380 kg. Weedkillers: Trifluralin at 1.1 kg in 200 l. Linuron at 0.50 kg in 200 l. Desiccant: Diquat at 0.60 kg ion applied with a wetting agent, 'Vassgrow' at 0.22 l, in 220 l. Irrigation: 22 mm on each of two occasions and 25 mm on a third.

Seed: S47, sown at 16 seeds per square metre.

Cultivations, etc.: Ploughed: 1 Sept, 1989. Rolled: 4 Sept. Deep-tine cultivated: 24 Nov. Spring-tine cultivated, NPK applied: 12 Mar, 1990. Trifluralin applied, spring-tine cultivated twice: 24 Apr. Seed sown, rolled: 25 Apr. Linuron applied: 1 May. Irrigation applied: 3, 25 May and 27 July. Desiccant applied: 29 Aug. Hand harvested: 4 Sept. Previous crops: W. wheat 1988 and 1989.

NOTE: Botrytis was assessed on four occasions during August. Plants were counted at harvest.

90/R/SU/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

***** Tables of means *****

SPRAYER	NONE	HYD	HYD DLN	MIST BLO	Mean
	2.37	2.26	2.28	2.51	2.35

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

SPRAYER
0.075

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.129	5.5

GRAIN MEAN DM% 79.0

PLOT AREA HARVESTED 0.00150