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

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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