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90/R/SU/4 Dimethipin and Maturity - Sunflowers

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90/R/SU/4

SUNFLOWERS

DIMETHIPIN AND MATURITY

Object: To study the effects of dimethipin and diquat on dates of maturity, amounts of disease and yield of sunflowers - Great Harpenden I.

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

Design: 3 randomised blocks each containing 2 replicates of 3 treatments.

Whole plot dimensions: 3.5 x 10.0.

Treatments:

CHEMICAL	Chemical sprays:
NONE	None
DIMETHIP	Dimethipin at 0.50 kg in 220 l applied on 22 Aug, 1990
DIQUAT	Diquat at 0.60 kg ion applied with a wetting agent, 'Vassgrow' at 0.22 l, in 220 l, applied on 5 Sept

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. Irrigation: 22 mm on each of three occasions.

Seed: Vincent, 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, rotary cultivated, seed sown, rolled: 24 Apr. Linuron applied: 1 May. Irrigation applied: 3, 10 and 25 May. Hand harvested: 10, 13 and 18 Sept for **CHEMICAL** DIMETHIP, DIQUAT and NONE respectively. Previous crops: W. wheat 1988 and 1989.

NOTE: Samples were assessed for seed moisture content during flowering. Botrytis was assessed three times during late summer. Plants were counted at harvest.

90/R/SU/4

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

CHEMICAL	NONE	DIMETHIP	DIQUAT	Mean
	2.71	2.51	2.67	2.63

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

CHEMICAL

0.075

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	13	0.131	5.0

GRAIN MEAN DM% 80.8

PLOT AREA HARVESTED 0.00150