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## Yields of the Field Experiments 1990

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

#### Rothamsted Research

Rothamsted Research (1991) *90/R/SU/4 Dimethipin and Maturity - Sunflowers* ; Yields Of The Field Experiments 1990, pp 149 - 150 - DOI: <https://doi.org/10.23637/ERADOC-1-42>

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:

|                 |                                                                                                       |
|-----------------|-------------------------------------------------------------------------------------------------------|
| <b>CHEMICAL</b> | 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