

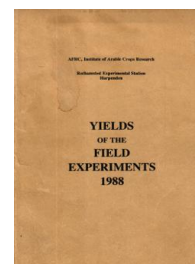
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88/R/SU/3 Fungicides and Botrytis - Sunflowers

Rothamsted Research

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88/R/SU/3

SUNFLOWERS

FUNGICIDES AND BOTRYTIS

Object: To study the effects of four rates of fungicides on the control of Botrytis head infection and on the yield of sunflowers - Fosters Corner.

Sponsors: C.J. Rawlinson, V.J. Church, R.A. Gutteridge.

Design: 4 randomised blocks of 5 plots.

Whole plot dimensions: 2.5 x 8.0.

Treatments:

FUNGRATE Rates of fungicides, per application:

| | |
|---|---|
| 0 | None (duplicated) |
| 1 | Carbendazim at 0.25 kg plus vinclozolin at 0.5 kg |
| 2 | Carbendazim at 0.50 kg plus vinclozolin at 1.0 kg |
| 3 | Carbendazim at 0.75 kg plus vinclozolin at 1.5 kg |

NOTE: Fungicides were applied on 7, 15, 26 July, 1988, 3 and 15 Aug.

Basal applications: Manures: (10:10:15+4.5 Mg) at 600 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 ion in 220 l.

Seed: S47, sown at 120,000 seeds per hectare.

Cultivations, etc.:- Glyphosate applied: 17 Nov, 1987. Ploughed: 8 Dec. Manures applied: 11 Mar, 1988. Spring-tine cultivated: 5 Apr. Trifluralin applied, spring-tine cultivated, rotary harrowed, seed sown: 6 Apr. Rolled: 7 Apr. Linuron applied: 11 Apr. Desiccant applied: 5 Sept. Combine harvested: 6 Sept. Previous crops: S. Oats 1986, w. wheat 1987.

NOTES: (1) The plots were covered by a bird-proof net from mid-April to maturity.
(2) Botrytis was assessed on three occasions.

88/R/SU/3

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

| FUNGRATE | 0 | 1 | 2 | 3 | Mean |
|----------|------|------|------|------|------|
| | 0.99 | 1.23 | 1.19 | 1.21 | 1.12 |

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

FUNGRATE

0.086 min.rep

0.075 max-min

FUNGRATE

max-min 0 v any of remainder

min.rep any of remainder

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

| Stratum | d.f. | s.e. | cv% |
|---------------------|---------|-------|------|
| BLOCK.WP | 13 | 0.122 | 10.9 |
| GRAIN MEAN DM% | 83.7 | | |
| PLOT AREA HARVESTED | 0.00120 | | |