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# Yields of the Field Experiments 1986

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## 86/R/SU/1 Varieties - Sunflowers

### Rothamsted Research

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86/R/SU/1

SUNFLOWERS

VARIETIES

Object: To compare six varieties of sunflower with and without fungicide sprays - Long Hoos VI/VII 3.

Sponsor: C.J. Rawlinson.

Design: 2 randomised blocks of 12 plots.

Whole plot dimensions: 2.54 x 4.88.

Treatments: All combinations of:-

1. VARIETY	Varieties:
ASM 077	ASM 077
FRNKASOL	Frankasol
HA 577	HA 577
HS 942	HS 942
SIGCO 10	SIGCO EX 10
VIKI	VIKI
2. FUNGCIDE	Fungicides:
NONE	None
FULL	Full: Prochloraz at 0.50 kg with iprodione at 0.50 kg and chlorothalonil at 1.0 kg applied on two occasions

- NOTES: (1) The fungicides were applied by electrostatic sprayer in 5.3 l at early and late flowering stages for each variety:
- |                    |         |        |
|--------------------|---------|--------|
| SIGCO 10           | 24 July | 20 Aug |
| HS 942 and ASM 077 | 4 Aug   | 20 Aug |
| Remainder          | 11 Aug  | 4 Sept |
- (2) The crop was netted against bird damage from mid-July until harvest.
- (3) At harvest, heads were removed by hand, and stationary threshed by combine harvester.

Basal applications: Manures: Chalk at 2.9 t. Muriate of potash at 520 kg. 'Nitro-Chalk' at 290 kg. Weedkillers: Glyphosate at 0.72 kg in 210 l. Trifluralin at 1.1 kg in 220 l.

Seed: Varieties, sown at 80,000 seeds per hectare.

Cultivations, etc.:- Muriate of potash applied: 23 Sept, 1985.  
Glyphosate applied: 25 Sept. Chalk applied: 30 Sept. Zig-zag harrowed: 15 Oct. Ploughed: 1 Nov. Spring-tine cultivated, N applied, trifluralin applied, spring-tine cultivated: 2 May, 1986.  
Seed sown: 3 May. Harvested by hand: SIGCO 10 plots: 24 Sept, remaining plots: 29 Oct. Previous crops: Potatoes 1984, fallow 1985.

NOTE: Emergence counts were made in early June and plant counts in early July. Disease assessments were made throughout September. Oil percentages of the grain were measured.

86/R/SU/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

FUNGCIDE VARIETY	NONE	FULL	MEAN
ASM 077	2.18	1.81	2.00
FRNKASOL	2.99	2.49	2.74
HA 577	2.07	2.05	2.06
HS 942	2.24	2.87	2.55
SIGCO 10	1.72	2.45	2.08
VIKI	2.94	2.90	2.92
MEAN	2.35	2.43	2.39

\*\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*\*

TABLE	VARIETY	FUNGCIDE	VARIETY FUNGCIDE
SED	0.164	0.095	0.232

\*\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*\*

STRATUM	DF	SE	CV%
BLOCK.WP	11	0.232	9.7

GRAIN MEAN DM% 70.0

PLOT AREA HARVESTED 0.00074