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# Yields of the Field Experiments 1986



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## 86/R/SU/2 Row Spacing and Seed Rates - Sunflowers

### **Rothamsted Research**

Rothamsted Research (1987) 86/R/SU/2 Row Spacing and Seed Rates - Sunflowers; Yields Of The Field Experiments 1986, pp 289 - 290 - DOI: https://doi.org/10.23637/ERADOC-1-36

#### 86/R/SU/2

#### SUNFLOWERS

#### ROW SPACING AND SEED RATES

Object: To study the effects of three row spacings and three seed rates on growth and yield of sunflowers - Long Hoos V 1.

Sponsor: C.J. Rawlinson.

Design: 4 randomised blocks of 9 plots.

Whole plot dimensions: Wide and narrow rows: 2.54 x 5.94.

Medium rows: 2.67 x 5.94.

Treatments: All combinations of:-

ROW SPAC Spacing between rows:

NARROW 25.4 cm (10 inches)
MEDIUM 38.1 cm (15 inches)
WIDE 50.8 cm (20 inches)

2. POPULATN Plant populations per hectare:

	Seeds sown	Plants establishe		
80	80,000	69,000		
120	120,000	89,000		
160	160,000	118,000		

NOTE: The crop was netted against bird damage from the end of July until harvest.

Basal applications: Manures: Chalk at 2.9 t. 'Nitro-Chalk' at 290 kg. Weedkiller: Trifluralin at 1.1 kg in 220 l. Bird repellent: 'Hoppit' at 3.0 l in 220 l.

Seed: Frankasol.

Cultivations, etc.:- Chalk applied: 30 Sept, 1985. Zig-zag harrowed: 15 Oct. Ploughed: 30 Oct. Spring-tine cultivated, N applied: 2. May, 1986. Weedkiller applied, spring-tine cultivated: 3 May. Seed sown: 4 May. Bird repellent applied: 4 Nov. Combine harvested: 5 Nov. Previous crops: S. beet 1984, s. barley 1985.

NOTE: Pest counts were made during the season.

86/R/SU/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

POPULATN ROW SPAC	80	120	160	MEAN
NARROW	1.63	1.75	1.44	1.61
MEDIUM	1.56	1.42	1.15	1.38
WIDE	1.51	1.61	1.30	1.47
MEAN	1.57	1.59	1.29	1 49

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

TABLE	ROW	SPAC	POPULATN	ROW SPAC POPULATN			
SED	(	0.093	0.093	0.161			

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

STRATUM DF SE CV% BLOCK.WP 24 0.227 15.3

GRAIN MEAN DM% 71.3

PLOT AREA HARVESTED NARROW & WIDE 0.00091 MEDIUM 0.00068