

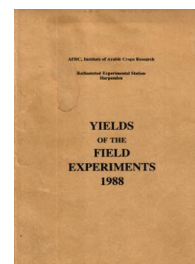
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## Yields of the Field Experiments 1988

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### 88/R/SU/2 Seed Rates - Sunflowers

#### Rothamsted Research

Rothamsted Research (1989) *88/R/SU/2 Seed Rates - Sunflowers* ; Yields Of The Field Experiments 1988, pp 242 - 243 - DOI: <https://doi.org/10.23637/ERADOC-1-43>

88/R/SU/2

**SUNFLOWERS**

**SEED RATES**

**Object:** To test the effects of five seed rates on plant growth, disease and yield - 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:**

**SEEDRATE**      Seed rate (no. seeds sown per square metre):

6  
8  
10  
12  
14

**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 0.40 kg ion in 220 l on two occasions.

**Seed:** HA 701.

**Cultivations, etc.:-** Glyphosate applied: 17 Nov, 1987. Ploughed: 8 Dec. Manures applied: 11 Mar, 1988. Trifluralin applied, spring-tine cultivated, rotary harrowed, seed sown: 6 Apr. Rolled: 7 Apr. Linuron applied: 11 Apr. Desiccant applied twice: 14 Sept. Combine harvested: 22 Sept. Previous crops: S. oats 1986, w. wheat 1987.

**NOTE:** The plots were covered by a bird-proof net from mid-April to maturity. Crop heights were measured at anthesis and maturity. Flower head angles and diameters were measured at maturity. Botrytis was assessed on three occasions.

88/R/SU/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

<b>SEEDRATE</b>	6	8	10	12	14	Mean
	1.99	1.99	2.30	2.16	2.39	2.16

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

**SEEDRATE**  
0.121

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.171	7.9

GRAIN MEAN DM% 64.6

PLOT AREA HARVESTED 0.00120