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## Yields of the Field Experiments 1989

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### 89/R/SU/4 Varieties and Botrytis - Sunflowers

#### Rothamsted Research

Rothamsted Research (1990) *89/R/SU/4 Varieties and Botrytis - Sunflowers* ; Yields Of The Field Experiments 1989, pp 198 - 198 - DOI: <https://doi.org/10.23637/ERADOC-1-40>

89/R/SU/4

SUNFLOWERS

VARIETIES AND BOTRYTIS

**Object:** To compare two varieties of sunflower for their yield and resistance to Botrytis - Long Hoos I/II.

**Sponsors:** V.J. Church, B.D.L. Fitt, C.J. Rawlinson.

**Design:** 3 blocks each of 2 replicates of 2 plots.

**Whole plot dimensions:** 2.5 x 10.0.

**Treatments:**

VARIETY	Varieties:
CRZ	CRz, susceptible to Botrytis
H4 PZ	H4 Pz, resistant to Botrytis

**Basal applications:** Manures: (0:18:36) at 925 kg. 'Nitram' at 150 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.

**Seed:** Varieties sown at 120,000 seeds per hectare.

**Cultivations, etc.:-** PK applied: 28 Sept, 1988. Glyphosate applied: 22 Oct. Ploughed: 16 Dec. N applied: 14 Apr, 1989. Trifluralin applied, rotary cultivated: 20 Apr. Seed sown: 21 Apr. Rolled, linuron applied: 24 Apr. Hand harvested CRZ: 13 Sept. Hand harvested H4 PZ: 21 Sept. Previous crops: W. wheat 1987, s. beans 1988.

**NOTE:** The plots were covered by a bird-proof net from late April to maturity. Growth stages were monitored fortnightly. Botrytis was assessed on four occasions towards maturity. Plants were counted before harvest.

**GRAIN (AT 90% DRY MATTER) TONNES/HECTARE**

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

VARIETY	CRZ	H4 PZ	Mean
	3.78	3.82	3.80

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

VARIETY  
0.202

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	0.349	9.2
GRAIN MEAN DM%	59.8	PLOT AREA HARVESTED	0.00200