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## Yields of the Field Experiments 1991

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### 91/R/SU/1 Varieties and Sowing Dates - Sunflowers

#### Rothamsted Research

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91/R/SU/1

SUNFLOWERS

VARIETIES AND BOTRYTIS

**Object:** To study the incidence of *Botrytis cinerea* on two varieties of sunflower and to compare their yields in the absence of fungicide treatment - Great Harpenden I.

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

**Design:** 8 randomised blocks of 2 plots.

**Whole plot dimensions:** 3.5 x 10.0.

**Treatments:**

**VARIETY** Varieties:

S 47

ALLEGRO

**Basal applications:** Manures: (0:16:36) at 980 kg. (12:20:20) at 380 kg.  
Weedkillers: Trifluralin at 1.1 kg in 200 l. Linuron at 0.48 kg in 200 l.

**Seed:** Varieties, sown at 12 seeds per square metre.

**Cultivations, etc.:-** First PK applied: 3 Sept, 1990. Ploughed: 11 Dec.  
NPK applied: 11 Apr, 1991. Heavy spring-tine cultivated: 24 Apr.  
Rotary harrowed, trifluralin applied, rotary harrowed, seed sown, rolled: 29 Apr. Linuron applied: 9 May. Hand harvested: 9 Sept.  
Previous crops: W. barley 1989 and 1990.

**NOTE:** Selected plants were monitored daily for growth stage and for disease from flowering to harvest. Numbers of *Botrytis* spores were recorded daily using a Burkard spore trap. Seed moisture content was measured at intervals after flowering.

91/R/SU/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

VARIETY	
S 47	2.48
ALLEGRO	2.43
Mean	2.45

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

VARIETY  
0.071

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	7	0.143	5.8
GRAIN MEAN DM%	71.2		
PLOT AREA HARVESTED	0.00150		