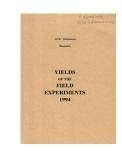
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# Yields of the Field Experiments 1994



Full Table of Content

# 94/R/SU/1 Varieties and Diseases - Sunflowers

# **Rothamsted Research**

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# 94/R/SU/1

#### SUNFLOWERS

#### VARIETIES & DISEASE

Object: To assess early maturing varieties of sunflowers and their susceptibility to Botrytis cinerea and other fungal diseases -Ex-allotments.

Sponsors: V.J. Church, H.A. McCartney.

Design: 4 randomised blocks of 6 plots.

Whole plot dimensions:  $3.5 \times 10.0$ .

#### Treatments:

#### CULTIVAR

345	SAM 345
348	SAM 348
AV	Avante
AL	Allegro
PAN	PAN 9405
AGC	AGC 92445

# Experimental diary:

- 01-Nov-93 : B : Sting CT at 4.0 1 in 200 1.
- 06-Dec-93 : B : Ploughed.
- 27-Apr-94 : B : Heavy spring-tine cultivated.
- 28-Apr-94 : B : Rotary harrowed.
- 29-Apr-94 : T : CULTIVAR 345, 348, AV, AL, PAN, AGC: Varieties, dressed, drilled at 14 seeds per m<sup>2</sup>.
- 03-May-94 : B : 34.5% N at 145 kg.
- 04-May-94 : B : Rolled.
- 06-May-94 : B : Stomp 400 at 5.0 1 in 200 1.
- 20-May-94 : B : Decis at 300 ml in 200 1.
- 13-Jun-94 : B : Laser at 2.25 1 with Actipron at 1.8 1 in 220 1.
- 24-Aug-94: T: CULTIVAR 345: Hand harvested, threshed by stationary combine.
- 25-Aug-94 :  $\mathbf{T}$  : CULTIVAR AV, AL, AGC: Reglone at 3.0 1 with Vassgro Spreader at 0.44 1 in 440 1.
- 02-Sep-94 : T : CULTIVAR AV, AL, AGC: Hand harvested, threshed by stationary combine.
- 22-Sep-94 : T : CULTIVAR PAN: Reglone at 3.0 1 with Vassgro Spreader at 0.44 1 in 440 1.
  - : T : CULTIVAR 348: Hand harvested, threshed by stationary combine.
- 29-Sep-94 : T : CULTIVAR PAN: Hand harvested, threshed by stationary combine.

Previous crops: W. wheat 1992, s. barley 1993.

#### 94/R/SU/1

NOTE: Plant populations, growth stages, diseases and head size were monitored throughout the season, moisture content was measured prior to desiccation and grain density and oil content were measured after harvest.

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

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

# CULTIVAR

345 2.41 348 3.15 AV 2.59 AL 2.63 PAN 3.35 AGC 2.68 Mean 2.80

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

#### CULTIVAR

0.189

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

Stratum d.f. s.e. cv%

BLOCK.WP 15 0.267 9.5

GRAIN MEAN DM% 69.7

PLOT AREA HARVESTED 0.00150