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

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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 x 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 l in 200 l.
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 m².
03-May-94 : B : 34.5% N at 145 kg.
04-May-94 : B : Rolled.
06-May-94 : B : Stomp 400 at 5.0 l in 200 l.
20-May-94 : B : Decis at 300 ml in 200 l.
13-Jun-94 : B : Laser at 2.25 l with Actipron at 1.8 l in 220 l.
24-Aug-94 : T : **CULTIVAR** 345: Hand harvested, threshed by stationary combine.
25-Aug-94 : T : **CULTIVAR** AV, AL, AGC: Reglone at 3.0 l with Vassgro Spreader at 0.44 l in 440 l.
02-Sep-94 : T : **CULTIVAR** AV, AL, AGC: Hand harvested, threshed by stationary combine.
22-Sep-94 : T : **CULTIVAR** PAN: Reglone at 3.0 l with Vassgro Spreader at 0.44 l in 440 l.
 : 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.

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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
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*** 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