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

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92/R/SU/1

SUNFLOWERS

VARIETIES & DISEASE

Object: To assess early maturing varieties of sunflowers and their susceptibility to *Botrytis cinerea* and other fungal diseases - Great Knott I.

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

Design: 6 randomised blocks of 4 plots.

Whole plot dimensions: 3.66 x 10.0.

Treatments:

VARIETY: Varieties:

AVANTE
ALLEGRO
SAM 301
SAM 313

Experimental diary:

25-Aug-91 : B : Straw chopped.
31-Oct-91 : B : Ploughed. (start)
07-Nov-91 : B : Ploughed. (finish)
21-Feb-92 : B : PK as (0:18:36) at 940 kg.
27-Apr-92 : B : NPK as (12:20:20) at 380 kg.
 : B : Heavy spring-tine cultivated.
04-May-92 : B : Spring-tine cultivated.
05-May-92 : B : Treflan at 2.3 l in 260 l, spring-tine cultivated.
06-May-92 : B : Rotary harrowed.
06-May-92 : T : **VARIETY** AVANTE: Seed, dressed, drilled at 14 seeds per square metre.
 : T : **VARIETY** ALLEGRO: Seed, dressed, drilled at 14 seeds per square metre.
 : T : **VARIETY** SAM 301: Seed, dressed, hand sown at 14 seeds per square metre.
 : T : **VARIETY** SAM 313: Seed, dressed, hand sown at 14 seeds per square metre.
07-May-92 : B : Rolled.
13-May-92 : B : Rotalin at 1.6 l in 400 l.
21-Aug-92 : B : **VARIETY** AVANTE, ALLEGRO: Reglone at 3.0 l with Farmon Blue at 0.33 l in 330 l.
26-Aug-92 : T : **VARIETY** SAM 313: Reglone at 3.0 l with Farmon Blue at 0.33 l in 330 l.
28-Aug-92 : T : **VARIETY** AVANTE, ALLEGRO: Cut by hand, threshed by stationary combine harvester.
04-Sep-92 : T : **VARIETY** SAM 313: Cut by hand, threshed by stationary combine harvester.
07-Sep-92 : T : **VARIETY** SAM 301: Reglone at 3.0 l with Farmon Blue at 0.33 l in 330 l.

92/R/SU/1

Experimental diary:

14-Sep-92 : T : VARIETY SAM 301: Cut by hand, threshed by stationary combine harvester.

Previous crops: W. barley 1990, w. wheat 1991.

NOTE: Crop was assessed for growth stage from emergence to desiccation. Incidence of *Botrytis cinerea* as assessed from early July to desiccation. Airborne spores were monitored with a Burkard spore trap. Seed moisture was assessed during seed development, oil content was measured at harvest.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

VARIETY	
AVANTE	2.91
ALLEGRO	3.06
SAM 301	2.93
SAM 313	3.07
Mean	2.99

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

VARIETY
0.056

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

Stratum	d.f.	s.e.	cv%
BLOCK	5	0.032	1.1
BLOCK.WP	15	0.098	3.3

GRAIN MEAN DM% 75.7

PLOT AREA HARVESTED 0.00150