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93/R/SU/1 Varieties and Disease - Sunflowers

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93/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 Field I/II.

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

Design: 6 blocks of 4 plots.

Whole plot dimensions: 3.5 x 10.0.

Treatments:

1. **VARIETY** Varieties:

AVANTE	Avante
ALLEGRO	Allegro
FIN 1651A	Finnish variety 1651A
FIN 400A	Finnish variety 400A

NOTES: (1) Sunflowers failed on original site. Experiment was re-sited following immature linseed, cultivated in.

(2) Experiment was netted from pre-emergence until harvest.

Experimental diary:

06-May-93 : B : 34.5% N at 220 kg.
13-May-93 : B : Decis at 0.30 l in 200 l.
01-Jun-93 : B : Cultivated by rotary grubber.
 : T : **VARIETY** AVANTE, ALLEGRO, FIN 1651A, FIN 400A: Rotary harrowed, varieties drilled at 14 seeds per square metre.
 : B : Stomp 400 at 5.0 l in 200 l.
09-Jun-93 : B : Draza at 5.5 kg.
30-Jun-93 : B : Laser at 2.25 l in 220 l.
22-Sep-93 : T : **VARIETY** AVANTE, ALLEGRO: Reglone at 3.0 l with Vassgro Spreader at 0.40 l in 400 l.
06-Oct-93 : T : **VARIETY** AVANTE, ALLEGRO: Cut by hand, subsequently threshed by stationary combine harvester.
12-Oct-93 : T : **VARIETY** FIN 400A: Cut by hand, subsequently threshed by stationary combine harvester.

Previous crops: W. rape 1991, linseed 1992.

93/R/SU/1

- NOTES: (1) VARIETY FIN 1651A plots were not harvested owing to adverse weather conditions.
- (2) Growth stage assessments were made from emergence to desiccation. Incidence of *Botrytis cinerea* and other diseases were assessed from end of July until desiccation. Airborne spores were monitored throughout the season, seed moisture was assessed during seed development and oil content measured at harvest.

GRAIN TONNES/HECTARE

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

VARIETY	
AVANTE	2.39
ALLEGRO	2.32
FIN 400A	2.47
Mean	2.39

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

VARIETY
0.099

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	10	0.171	7.1
GRAIN MEAN DM%	80.8		
PLOT AREA HARVESTED	0.00150		