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Yields of the Field Experiments 1987



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87/R/SU/1 Early Varieties and Plant Health - Sunflowers

Rothamsted Research

Rothamsted Research (1988) 87/R/SU/1 Early Varieties and Plant Health - Sunflowers ; Yields Of The Field Experiments 1987, pp 240 - 241 - DOI: https://doi.org/10.23637/ERADOC-1-37

87/R/SU/1

SUNFLOWERS

EARLY VARIETIES AND PLANT HEALTH

Object: To compare six varieties of sunflower with and without sprays to control pathogens - Hoosfield.

Sponsor: C.J. Rawlinson.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 4.5 x 10.0.

Treatments: All combinations of:-

1. VARIETY Varieties:

SUNBRED	Sunbred 246
EX 10	Ex 10
EX 34	Ex 34
S 2004	S 2004
CERFLOR	Cerflor
SUNWHEAT	Sunwheat

2. PATHCONT Pathogen control:

NONE

None Full: Carbendazim at 0.25 kg with vinclozolin at 0.50 kg in 220 l on 25 July, 1987, 5 Aug, 19 Aug, 2 Sept and 16 Sept

- NOTES: (1) Varieties SUNBRED and CERFLOR were desiccated with diquat at 0.60 kg ion in 220 l on 12 Oct, 1987 but were not harvested for yield because of subsequent storm and bird damage.
 - (2) The remaining varieties were desiccated with diquat at 0.60 kg ion in 220 1 on 18 Sept and combine harvested on 25 Sept.
- Basal applications: Manures: 'Nitram' at 200 kg. Weedkillers: Glyphosate at 1.4 kg in 200 l. Trifluralin at 0.84 kg in 200 l. Linuron at 0.75 kg in 500 l.

Seed: Varieties, sown at 80,000 seeds per hectare.

- Cultivations, etc.:- Glyphosate applied: 6 Nov, 1986. Ploughed: 1 Dec. Spring-tine cultivated: 14 Apr, 1987. N applied, trifluralin applied, rotary harrowed twice: 15 Apr. Seed sown: 17 Apr. Linuron applied: 21 Apr. Previous crops: Sugar beet 1985, s. barley 1986.
- NOTE: Disease assessments were made on five occasions from June until September. Growth stages and plant height were assessed on ten occasions thoughout the season. Oil contents of the grain were measured.

87/R/SU/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

PATHCONT	NONE	FULL	Mean
VARIETY			
EX 10	1.79	1.71	1.75
EX 34	0.52	0.78	0.65
S 2004	2.71	2.38	2.55
SUNWHEAT	1.50	1.88	1.69
Mean	1.63	1.69	1.66

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

Table	VARIETY	PATHCONT	VARIETY PATHCONT	
s.e.d.	0.168	0.119	0.238	
***** Stratum	standard errors	and coeffi	cients of variation	*****

 Stratum
 d.f.
 s.e.
 cv%

 BLOCK.WP
 14
 0.291
 17.6

 GRAIN MEAN DM%
 61.9
 14
 14

PLOT AREA HARVESTED 0.00200

https://doi.org/10.23637/ERADOC-1-37