

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1987

[Full Table of Content](#)

87/R/SU/1 Early Varieties and Plant Health - Sunflowers
Rothamsted Experimental Station
Harpenden
Herts
AL5 2JQ
UK
The copyright in this document is owned by Rothamsted Research and is licensed to you under the terms of the Creative Commons Attribution 4.0 International License (CC BY 4.0). For more information on the CC BY 4.0 license, please visit <https://creativecommons.org/licenses/by/4.0/>.
Printed: 2018-01-10
Rothamsted 2018

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	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 l 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 throughout 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 coefficients of variation *****

Stratum	d.f.	s.e.	cv%
BLOCK.WP	14	0.291	17.6
GRAIN MEAN DM%	61.9		
PLOT AREA HARVESTED	0.00200		