

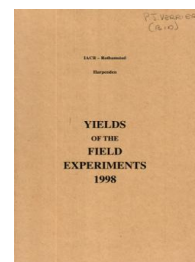
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Rothamsted Research

Rothamsted Research (1999) *98/R/RAW/5 Stem Canker Study - W. Oilseed Rape* ; Yields Of The Field Experiments 1998, pp 145 - 146 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/R/RAW/5

WINTER OILSEED RAPE

STEM CANKER STUDY

Object: To test fungicidal spray programmes on two varieties of oilseed rape - Highfield V.

Sponsors: B.D.L. Fitt, J.E. Biddulph, J.S. West, R.H. Williams.

Design: 4 blocks of 5 plots split into 2 sub-plots.

Whole plot dimensions: 3.0 x 15.0.

Treatments:

1. **FUNGICIDE**
Difenoconazole and carbendazim (as Plover 250 EC at 0.5 l and Campbell's Carbendazim 50% Flowable at 0.5 l):
 - None
 - S-F Applied on five occasions
 - O-F Applied on four occasions
 - N-F Applied on three occasions
 - A Applied on three occasions

2. **CULTIVAR**
 - C Capitol
 - L Lipton

Experimental diary:

- 25-Jul-97 : B : Discd.
- 14-Aug-97 : B : Ploughed and furrow pressed.
- 26-Aug-97 : T : Rotary harrowed, cultivars, undressed, drilled at 120 seeds per m². Rolled
- 17-Sep-97 : B : Butisan S at 1.5 l with Cyperkill 10 at 250 ml in 200 l.
- 24-Sep-97 : T : **FUNGICIDE** S-F: Fungicides applied in 200 l.
- 23-Oct-97 : T : **FUNGICIDE** S-F, O-F, A: Fungicides applied in 260 l.
- 07-Nov-97 : B : Cyperkill 10 at 250 ml in 200 l.
- 13-Nov-97 : T : **FUNGICIDE** A: Fungicides applied in 200 l.
- 26-Nov-97 : T : **FUNGICIDE** S-F, O-F, N-F: Fungicides applied in 200 l.
- 16-Jan-98 : T : **FUNGICIDE** S-F, O-F, N-F: Fungicides applied in 200 l.
- 04-Feb-98 : B : 34.5% N at 290 kg.
- 19-Feb-98 : B : Laser at 0.75 l with Chiltern Cropoil at 1.0 l in 100 l.
- 24-Feb-98 : T : **FUNGICIDE** S-F, O-F, N-F, A: Fungicides applied in 200 l.
- 02-Mar-98 : B : 34.5% N at 350 kg.
- 05-May-98 : B : Fastac at 200 ml in 200 l.
- 10-Jul-98 : B : Reglone at 3.0 l with Headland Enhance LF at 400 ml in 400 l.
- 19-Jul-98 : B : Combine harvested.

Previous crops W. wheat and barley 1996, w. barley 1997.

98/R/RAW/5

NOTE: Plant samples were taken regularly through the growing season for disease assessments. Harvested grain was analysed for oil content.

GRAIN TONNES/HECTARE

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

CULTIVAR FUNGICIDE	C	L	Mean
-	1.78	2.30	2.04
S-F	2.53	2.92	2.72
O-F	2.55	2.77	2.66
N-F	2.53	3.14	2.84
A	2.86	2.44	2.65
Mean	2.45	2.71	2.58

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

FUNGICIDE	CULTIVAR	FUNGICIDE CULTIVAR
0.189	0.107	0.254

Except when comparing means with the same level(s) of
FUNGICIDE 0.239

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.268	10.4
BLOCK.WP.SP	15	0.338	13.1

GRAIN MEAN DM% 83.1

SUB-PLOT AREA HARVESTED 0.00156