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00/R/RAW/5 Stem Canker Study - W. Oilseed Rape

Rothamsted Research

Rothamsted Research (2001) *00/R/RAW/5 Stem Canker Study - W. Oilseed Rape* ; Yields Of The Field Experiments 2000, pp 151 - 152 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/RAW/5

WINTER OILSEED RAPE

STEM CANKER STUDY

Object: To test fungicide programmes on two varieties of oilseed rape - Great Knott II.

Sponsors: J.S. West, B.D.L. Fitt, C. Underwood, N. Evans.

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

Whole plot dimensions: 6.0 x 15.0.

Sub-plot dimensions: 3.0 x 15.0.

Treatments: All combinations of:-

Whole plots

1. **FUNGSPRY** Difenoconazole and carbendazim (as Plover 250 EC and Bavistin DF):
- None
 - S-F Applied on five occasions
 - N-F Applied on two occasions
 - A2 Applied on two occasions
 - A1 Applied once

Sub-plots

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

Experimental diary:

- 15-Jul-99 : B : : Subsoiled.
- 16-Jul-99 : B : : Ploughing and furrow pressing started.
- 19-Jul-99 : B : : Ploughing and furrow pressing completed.
- 26-Jul-99 : B : : Rolled.
- 05-Aug-99 : B : : Rotary harrowed.
- 27-Aug-99 : T : C : Combination drilled, Capitol, tr. Lindex-Plus FS Seed Treatment, at 80 seeds/m², with the Accord drill.
- : T : L : Combination drilled, Lipton, tr. Lindex-Plus FS Seed Treatment, at 80 seeds/m², with the Accord drill.
- : B : : tm)Scythe at 2.0 l in 200 l.
- : B : : tm)Enhance Low Foam at 100 ml in 200 l.
- 28-Aug-99 : B : : Rolled.
- 29-Aug-99 : B : : tm)Alpha Trifluralin 48 EC at 2.0 l in 200 l.
- : B : : tm)Katamaran at 2.0 l in 200 l.
- 30-Aug-99 : B : : PBI Slug Pellets at 8.0 kg.
- 30-Sep-99 : T : S-F : tm)Plover 250 EC at 0.25 l with Bavistin DF at 0.25 kg in 220 l.
- 08-Oct-99 : B : : Genesis at 5.0 kg.
- 11-Oct-99 : T : A1 : tm)Plover 250 EC at 0.25 l with Bavistin DF at 0.25 kg in 220 l.

00/R/RAW/5

Experimental diary:

14-Oct-99 : B : : tm)Hallmark at 100 ml in 200 l.
 14-Oct-99 : B : : tm)Enhance Low Foam at 60 ml in 200 l.
 20-Oct-99 : B : : 34.5% N at 87 kg.
 27-Oct-99 : T : A2,S-F : tm)Plover 250 EC at 0.25 l with Bavistin DF at 0.25 kg in 220 l.
 25-Nov-99 : T : A2,N-F,S-F : tm)Plover 250 EC at 0.25 l with Bavistin DF at 0.25 kg in 220 l.
 10-Jan-00 : T : S-F : tm)Plover 250 EC at 0.25 l with Bavistin DF at 0.25 kg in 220 l.
 09-Feb-00 : B : : Sulphan (30.0% N, 7.6% S) at 166 kg.
 05-Mar-00 : T : N-F,S-F : Plover 250 EC at 0.25 l with Bavistin DF at 0.25 kg in 220 l.
 15-Mar-00 : B : : Sulphan (30.0% N, 7.6% S) at 433 kg.
 28-Apr-00 : B : : tm)Bavistin DF at 0.25 kg in 200 l.
 : B : : tm)Plover 250 EC at 250 ml in 200 l.
 15-May-00 : B : : Hallmark with Zeon Technology at 75 ml in 200 l.
 12-Jul-00 : B : : tm)Enhance Low Foam at 400 ml in 400 l.
 : B : : tm)Reglone at 3.0 l in 400 l.
 20-Jul-00 : B : : Combine harvested.

Previous crops: Peas 1998, set-aside 1999.

GRAIN TONNES/HECTARE

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

CULTIVAR FUNGSPRY	C	L	Mean
-	4.21	4.51	4.36
S-F	4.60	5.15	4.88
N-F	4.71	4.89	4.80
A2	4.63	4.89	4.76
A1	4.55	4.57	4.56
Mean	4.54	4.80	4.67

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

	FUNGSPRY	CULTIVAR	FUNGSPRY CULTIVAR
	0.225	0.086	0.263
Except when comparing means with the same level(s) of FUNGSPRY			0.192

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	12	0.318	6.8
BLOCK.WP.SP	15	0.271	5.8

GRAIN MEAN DM% 87.3

SUB-PLOT AREA HARVESTED 0.00288