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## Yields of the Field Experiments 2000

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### 00/R/CS/503 Winter Rape and Take-all

#### Rothamsted Research

Rothamsted Research (2001) *00/R/CS/503 Winter Rape and Take-all* ; Yields Of The Field Experiments 2000, pp 98 - 99 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

00/R/CS/503

WINTER RAPE AND TAKE-ALL

**Object:** To test effects of different management regimes for winter oilseed rape on take-all (*Gaeumannomyces graminis*) in the following wheat - Great Harpenden II.

**Sponsors:** J.F. Jenkyn, G.L. Bateman, R.J. Gutteridge.

**Design:** 4 blocks of 4 x 2.

The second year.

**Whole plot dimensions:** 3.0 x 10.0.

**Treatments:** All combinations of:-

1. **W VOLUNT**           Wheat volunteers in previous rape:
  - (P)                   Prevented
  - (EE)                  Encouraged then destroyed early
  - (EL)                  Encouraged then destroyed late
  - (E)                   Encouraged
  
2. **N**                    Nitrogen in 1999 (kg N):
  - (N1)                 41 in autumn and 104 in February
  - (N2)                 41 in autumn, 104 in February and 104 in March

**Experimental diary:**

19-Aug-98 : B : : Shakerated  
20-Aug-98 : B : : Ploughing and furrow pressing started.  
21-Aug-98 : B : : Ploughing and furrow pressing completed.  
28-Aug-98 : T : **W VOLUNT** EE,EL,E : Combination drilled, Abbot, tr. Beret Gold, at 60 seeds/m<sup>2</sup>, (wheat volunteers).  
          : B : : Combination drilled, Apex, tr. Lindex-Plus FS Seed Treatment, at 120 seeds/m<sup>2</sup>.  
29-Aug-98 : B : : Hardy at 7.5 kg.  
16-Sep-98 : B : : Hardy at 7.5 kg.  
17-Sep-98 : B : : Decis at 250 ml in 200 l.  
25-Sep-98 : B : : 34.5% N at 120 kg.  
28-Sep-98 : T : **W VOLUNT** P : tm) Laser at 0.7 l in 220 l.  
          : tm) Cropoil at 2.0 l in 220 l.  
13-Oct-98 : B : : Hardy at 7.5 kg.  
04-Nov-98 : T : **W VOLUNT** EE : tm) Laser at 0.75 l in 220 l.  
          : tm) Cropoil at 2.0 l in 220 l.  
04-Dec-98 : B : : tm) Punch C at 0.4 l in 200 l.  
          : tm) Stefes Cypermethrin 2 at 250 ml in 200 l.  
08-Feb-99 : T : **W VOLUNT** P, EE, EL : tm) Laser at 1.0 l in 220 l.  
          : tm) Cropoil at 2.0 l in 220 l.  
10-Feb-99 : B : : 34.5% N at 300 kg.  
15-Mar-99 : B : : Punch C at 0.4 l in 200 l.  
17-Mar-99 : T : **W VOLUNT** P, EE, EL : tm) Laser at 2.25 l in 220 l.  
          : tm) Cropoil at 2.0 l in 220 l.  
23-Mar-99 : T : **N** N2 : 34.5% N at 300 kg.  
29-Apr-99 : B : : tm) Bavistin DF at 1.0 kg in 200 l.  
          : tm) Ronilan FL at 0.5 l in 200 l.  
          : tm) Hallmark at 100 ml in 200 l.  
07-Jul-99 : B : : tm) Reglone at 3.0 l in 400 l.  
          : tm) Enhance Low Foam at 400 ml in 400 l.  
17-Jul-99 : B : : Combine harvested.  
19-Jul-99 : B : : Straw removed.

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**Experimental diary:**

01-Sep-99 : B : : Ploughing and furrow pressing started.  
 02-Sep-99 : B : : Ploughing and furrow pressing completed.  
 14-Sep-99 : B : : Disced, rolled.  
 15-Sep-99 : B : : Disced.  
 17-Sep-99 : B : : Combination drilled, Hereward, tr. Sibutol, at 380  
 seeds/m<sup>2</sup>, with the Accord drill.  
 22-Sep-99 : B : : Genesis at 5.0 kg.  
 26-Oct-99 : B : : tm)Lexus 50 DF at 20 g in 200 l.  
 : B : : tm)Stomp 400 SC at 2.5 l in 200 l.  
 : B : : tm)Cyperkill 10 at 250 ml in 200 l.  
 09-Mar-00 : B : : 34.5% N at 145 kg.  
 06-Apr-00 : B : : tm)Topik at 125 ml in 200 l.  
 : B : : tm)Toil at 0.5 l in 200 l.  
 19-Apr-00 : B : : 34.5% N at 377 kg.  
 27-Apr-00 : B : : Opus at 0.4 l in 200 l.  
 01-May-00 : B : : Moddus at 0.2 l in 200 l.  
 07-May-00 : B : : tm)Sypex at 1.0 l in 200 l.  
 : B : : tm)Enhance Low Foam at 80 ml in 200 l.  
 22-May-00 : B : : Opus at 0.75 l in 100 l.  
 10-Aug-00 : B : : Combine harvested.

Previous crops: W. wheat 1998, w. rape 1999.

**NOTE:** Plant samples were taken in April and June to assess root and stem base diseases.

**GRAIN TONNES/HECTARE**

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

	N	(N1)	(N2)	Mean
<b>W VOLUNT</b>				
(P)		7.03	7.35	7.19
(EE)		6.87	6.98	6.93
(EL)		6.61	6.36	6.49
(E)		6.57	6.64	6.60
Mean		6.77	6.83	6.80

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

W VOLUNT	N	W VOLUNT
		N
0.267	0.189	0.378

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	21	0.534	7.9

GRAIN MEAN DM% 83.1

PLOT AREA HARVESTED 0.00237