

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 1999

[Full Table of Content](#)



### **99/R/CS/504 Break Crops and Take-all - W. Wheat, W. Oats, W. Rape, W. Linseed, W. Beans, W. Peas, W. Lupins**

#### **Rothamsted Research**

Rothamsted Research (2000) *99/R/CS/504 Break Crops and Take-all - W. Wheat, W. Oats, W. Rape, W. Linseed, W. Beans, W. Peas, W. Lupins* ; Yields Of The Field Experiments 1999, pp 106 - 108 -  
**DOI: <https://doi.org/10.23637/ERADOC-1-34>**

99/R/CS/499

- NOTES:** (1) The yield of one plot, with **CULTIVAR P NITROGEN N-** was lost because of poor establishment. An estimate was used in the analysis.  
 (2) The yields for 1998, crop establishment year were negligible and are not published.

Previous crops: Fallow 1996, mixed cereal 1997.

**TOTAL DRY WEIGHT TONNES/HECTARE**

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

<b>NITROGEN CULTIVAR</b>	N-	N3	Mean
B	9.29	9.16	9.22
CT	10.04	9.73	9.88
CR	8.68	8.64	8.66
P	8.79	6.52	7.65
S	9.60	8.66	9.13
Mean	9.28	8.54	8.91

  

<b>EXTRA</b>	N1	N2	N4	Mean
	8.85	8.25	9.01	8.70

Grand mean 8.86

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

<b>CULTIVAR</b>	<b>NITROGEN</b>	<b>CULTIVAR NITROGEN &amp; EXTRA</b>
0.468	0.296	0.662

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	23	0.811	9.1
MEAN DM%	67.7		
PLOT AREA HARVESTED	0.00074		

99/R/CS/504

**BREAK CROPS AND TAKE-ALL**

**Object:** To test effects of different break crops on take-all (*Gaeumannomyces graminis*) in the following wheats - Great Harpenden II.

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

**Design:** 4 Blocks of 7 plots.

The first year, w. wheat, w. oats, w. rape, w. linseed, w. beans, w. peas, and w. lupins

**Whole plot dimensions:** 6.0 x 10.0.

**Treatments:**

**CROP**

BEW	Winter beans
LNW	Winter linseed
LP	Winter lupins
WW	Winter wheat
RAW	Winter oilseed rape
OW	Winter oats
PEW	Winter peas

**Experimental diary:**

19-Aug-98 : B : : Shakerated.  
20-Aug-98 : B : : Ploughed and furrow pressed, started.  
21-Aug-98 : B : : Ploughed and furrow pressed, completed.  
27-Aug-98 : T : RAW : Combination drilled, Apex, tr. Lindex-Plus FS Seed Treatment, at 120 seeds/m<sup>2</sup> with the Accord drill.  
29-Aug-98 : B : : Hardy at 7.5 kg.  
07-Sep-98 : T : LP : Rolled.  
: T : LP : Combination drilled, DTN 20, untreated, at 50 seeds/m<sup>2</sup> with the Accord drill.  
: T : LP : Spannit at 1.5 l in 220 l.  
11-Sep-98 : T : LP : Hardy at 7.5 kg.  
16-Sep-98 : B : : Hardy at 7.5 kg.  
17-Sep-98 : T : RAW : tm)Katamaran at 2.0 l in 200 l.  
: T : RAW : tm)Decis at 250 ml in 200 l.  
21-Sep-98 : T : WW : Combination drilled, Hereward, tr. Beret Gold, at 380 seeds/m<sup>2</sup> with the Accord drill.  
25-Sep-98 : T : RAW : 34.5% N at 120 kg.  
12-Oct-98 : T : LNW : Combination drilled, Oliver, tr. Prelude 20 LF, at 950 seeds/m<sup>2</sup> with the Nordsten drill.  
13-Oct-98 : T : WW : Combination drilled, Hereward, tr. Sibutol, at 380 seeds/m<sup>2</sup>, plot 1 only with the Accord drill.  
: B : : Hardy at 7.5 kg.  
15-Oct-98 : T : BEW : Drilled, Clipper, recleaned, at 25 seeds/m<sup>2</sup> with the Fiona drill.  
: T : PEW : Drilled, Victor, tr. Hy-TL and Rhodoman, at 100 seeds/m<sup>2</sup> with the Fiona drill.  
16-Oct-98 : T : OW : Combination drilled, Gerald, tr. Sibutol, at 350 seeds/m<sup>2</sup> with the Accord drill.  
: T : LP : tm)Stomp 400 SC at 5.0 l in 220 l.  
: T : LP : tm)Decis at 300 ml in 220 l.  
19-Oct-98 : T : PEW : Opogard 500 SC at 3.4 l in 220 l.  
: T : BEW : tm)Gesatop 500 SC at 2.0 l in 220 l.  
: T : BEW : tm)Kerb 50 W at 1.7 kg in 220 l.  
04-Dec-98 : T : RAW : tm)Punch C at 0.4 l in 200 l.

99/R/CS/504

**Experimental diary:**

04-Dec-98 : T : RAW : tm)Stefes Cypermethrin 2 at 250 ml in 200 l.  
07-Dec-98 : T : RAW : tm)Laser at 0.5 l in 200 l.  
: T : RAW : tm)Cropoil at 2.0 l in 200 l.  
16-Dec-98 : B : Draza at 5.5 kg.  
29-Jan-99 : T : LNW, LP, BEW : tm)Laser at 1.0 l in 220 l.  
: T : LNW, LP, BEW : tm)Cropoil at 2.0 l in 220 l.  
10-Feb-99 : T : RAW : 34.5% N at 300 kg, northern 5.0 m of (OW) also  
treated, in error.  
09-Mar-99 : T : WW : tm)Isoguard at 1.0 l in 200 l.  
: T : WW : tm)Unite A at 0.125 l in 200 l.  
: T : WW : tm)Unite B at 1.0 l in 200 l.  
: T : WW : tm)Cropoil at 1.0 l in 200 l.  
15-Mar-99 : T : RAW : Punch C at 0.4 l in 200 l.  
16-Mar-99 : T : WW : 34.5% N at 145 kg.  
17-Mar-99 : T : LP : tm)Folicur at 0.5 l in 200 l.  
: T : LP : tm)Rovral Flo at 1.0 l in 200 l.  
23-Mar-99 : T : RAW : 34.5% N at 300 kg.  
26-Mar-99 : T : LNW : 34.5% N at 348 kg.  
09-Apr-99 : T : OW : 34.5% N at 145 kg.  
23-Apr-99 : T : WW : 34.5% N at 435 kg.  
27-Apr-99 : T : OW : 34.5% N at 145 kg.  
29-Apr-99 : T : RAW : tm)Bavistin DF at 1.0 kg in 200 l.  
: T : RAW : tm)Ronilan FL at 0.5 l in 200 l.  
: T : RAW : tm)Hallmark at 100 ml in 200 l.  
30-Apr-99 : T : LNW : tm)Ally at 20 g in 200 l.  
: T : LNW : tm)Eagle at 30 g in 220 l.  
: T : BEW : Compass at 3.0 l in 220 l.  
19-May-99 : T : BEW : tm)Bavistin DF at 1.0 kg in 220 l.  
: T : BEW : tm)Bravo 500 at 2.0 l in 220 l.  
21-May-99 : T : OW : tm)BASF 3C Chlormequat 720 at 2.25 l in 220 l.  
: T : OW : tm)Enhance at 50 ml in 220 l.  
26-May-99 : T : WW : Opus at 1.0 l in 220 l.  
01-Jun-99 : T : OW : Folicur at 0.75 l in 220 l.  
10-Jun-99 : T : BEW : tm)Bavistin DF at 1.0 kg in 220 l.  
: T : BEW : tm)Compass at 2.0 l in 220 l.  
: T : BEW : tm)Sipcam UK Rover 500 at 2.0 l in 220 l.  
: T : BEW : tm)Aphox at 100 g in 220 l.  
: T : BEW : tm)Hallmark at 150 ml in 220 l.  
18-Jun-99 : T : LP : tm)Aphox at 280 g in 200 l.  
: T : LP : tm)Enhance at 50 ml in 200 l.  
25-Jun-99 : T : BEW : Compass at 3.0 l in 220 l.  
: T : LP : Folicur at 0.75 l in 220 l.  
07-Jul-99 : T : RAW : tm)Enhance at 400 ml in 400 l.  
: T : RAW : tm)Reglone at 3.0 l in 400 l.  
09-Jul-99 : T : LNW : tm)Reglone at 3.0 l in 400 l.  
: T : LNW : tm)Enhance at 400 ml in 400 l.  
17-Jul-99 : T : RAW : Combine harvested.  
19-Jul-99 : T : RAW : Baled straw.  
24-Jul-99 : T : LNW : Combine harvested.  
31-Jul-99 : T : WW,OW : Combine harvested.  
12-Aug-99 : T : BEW : Combine harvested.  
26-Aug-99 : T : LP : Combine harvested.  
27-Aug-99 : B : : Baled all remaining straw.

Previous crops: w. wheat 1997, w. wheat 1998

**NOTE:** W. peas failed therefore no yield.