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Yields of the Field Experiments 1999

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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

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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 *****

NITROGEN CULTIVAR	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

EXTRA	N1	N2	N4	Mean
	8.85	8.25	9.01	8.70

Grand mean 8.86

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

CULTIVAR	NITROGEN	CULTIVAR NITROGEN & EXTRA
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/m² 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/m² 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/m² 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/m² with the Nordsten drill.
13-Oct-98 : T : WW : Combination drilled, Hereward, tr. Sibutol, at 380 seeds/m², plot 1 only with the Accord drill.
: B : : Hardy at 7.5 kg.
15-Oct-98 : T : BEW : Drilled, Clipper, recleaned, at 25 seeds/m² with the Fiona drill.
: T : PEW : Drilled, Victor, tr. Hy-TL and Rhodoman, at 100 seeds/m² with the Fiona drill.
16-Oct-98 : T : OW : Combination drilled, Gerald, tr. Sibutol, at 350 seeds/m² 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.

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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.