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## Yields of the Field Experiments 1999

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### 99/R/RAW/1 Growth of Weeds and Rape - W. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (2000) *99/R/RAW/1 Growth of Weeds and Rape - W. Oilseed Rape* ; Yields Of The Field Experiments 1999, pp 133 - 135 - DOI: <https://doi.org/10.23637/ERADOC-1-34>

99/R/WW/13

**GRAIN TONNES/HECTARE**

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

<b>NITROGEN FUNGICIDE</b>	N0	N1	N2	N3	N4	N5	Mean
S	3.90	6.49	9.11	10.54	11.09	11.39	8.76
C	3.58	6.63	8.62	10.35	11.20	11.16	8.59
Mean	3.74	6.56	8.86	10.44	11.15	11.27	8.67

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

<b>FUNGICIDE</b>	<b>NITROGEN</b>	<b>FUNGICIDE NITROGEN</b>
0.091	0.158	0.223

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	22	0.273	3.1
GRAIN MEAN DM%	83.8		

**STRAW TONNES/HECTARE**

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

<b>NITROGEN FUNGICIDE</b>	N0	N1	N2	N3	N4	N5	Mean
S	1.38	3.07	5.27	5.67	6.39	6.70	4.75
C	1.48	3.27	4.93	5.91	6.68	6.44	4.78
Mean	1.43	3.17	5.10	5.79	6.53	6.57	4.77

STRAW MEAN DM% 63.2

PLOT AREA HARVESTED 0.00230

99/R/RAW/1

WINTER OILSEED RAPE

GROWTH OF WEEDS AND RAPE

**Object:** To measure the competitive effects of combinations of chickweed and barley on the growth and yield of oilseed rape - Appletree.

**Sponsors:** P.J.W. Lutman.

**Design:** 48 plots single replicate.

**Whole plot dimensions:** 4.0 x 16.0.

**Treatments:** All singly and certain combinations of:

1. **BARL DEN** Barley (cultivar Gleam), target plants per m<sup>2</sup>:

B0	0
B1	20
B2	40
B3	60
B4	80
B5	100
B6	120
B7	150
B8	180
B9	220
B10	260
B11	300
B12	400

2. **CHCK DEN** Chickweed (*stellaria media*), target plants per m<sup>2</sup>:

C0	0
C1	30
C2	60
C3	90
C4	120
C5	150
C6	180
C7	220
C8	280
C9	340
C10	400
C11	600
C12	800

**NOTE:** Combination B0 C0 was quadruplicated.

**Experimental diary:**

29-Jul-98 : B : : Subsoiled started  
30-Jul-98 : B : : Subsoiled completed  
12-Aug-98 : B : : Ploughed and furrow pressed, started.  
13-Aug-98 : B : : Ploughed and furrow pressed, completed.

99/R/RAW/1

**Experimental diary:**

27-Aug-98 : T : : Barley and chickweed seed broadcast as treatment.  
 : B : : Rotary harrowed, Apex, tr. Lindex-Plus FS Seed  
 : : : Treatment, drilled at 120 seeds/m<sup>2</sup> with the Accord  
 : : : drill.  
 28-Aug-98 : B : : Rolled.  
 29-Aug-98 : B : : Hardy at 7.5 kg.  
 17-Sep-98 : B : : Decis at 250 ml in 200 l.  
 24-Sep-98 : B : : 34.5% N at 120 kg.  
 28-Sep-98 : T : : Butisan S at 1.5 l in 220 l, control and barley only  
 : : : plots.  
 : T : : tm)Laser at 0.7 l in 220 l, control and chickweed only  
 : : : plots.  
 : T : : tm)Cropoil at 2.0 l in 220 l, control and chickweed  
 : : : only plots.  
 16-Nov-98 : B : : tm)Punch C at 0.4 l in 200 l.  
 : B : : tm)Stefes Cypermethrin 2 at 250 ml in 200 l.  
 08-Feb-99 : B : : 34.5% N at 300 kg.  
 25-Feb-99 : B : : Punch C at 0.4 l in 200 l.  
 05-Mar-99 : B : : 34.5% N at 300 kg.  
 30-Apr-99 : B : : tm)Bavistin DF at 1.0 l in 200 l.  
 : B : : tm)Ronilan FL at 0.5 l in 200 l.  
 : B : : tm)Hallmark at 100 ml in 200 l.  
 09-Jul-99 : B : : tm)Reglone at 3.0 l in 400 l.  
 : B : : tm)Enhance at 400 ml in 400 l.  
 18-Jul-99 : B : : Combine harvested.

Previous crops: Linseed 1997, w. barley 1998.

**GRAIN TONNES/HECTARE (FROM COMBINE HARVESTER)**

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

	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
<b>CHCKWEED</b>													
<b>BARLEY</b>													
B0	4.68	4.24	4.75	4.89	4.16	4.04	4.60	3.19	4.42	4.48	4.46	5.00	4.31
B1	5.21			4.85		4.67		4.34			4.68		
B2	4.48			4.55		2.87		4.05			4.21		
B3	4.83												
B4	4.37			4.43		4.45		4.58			4.24		
B5	5.11												
B6	4.38			5.35		4.07		4.57			4.41		
B7	5.06												
B8	4.41			4.42		4.06		4.13			4.82		
B9	4.50												
B10	4.62												
B11	4.48												
B12	4.55												

GRAIN MEAN DM% 89.0