

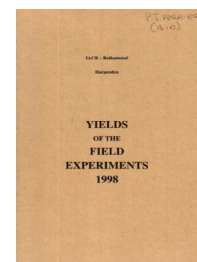
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## Yields of the Field Experiments 1998

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### 98/R/RAW/6 Weeds in Winter Rape - W. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (1999) *98/R/RAW/6 Weeds in Winter Rape - W. Oilseed Rape* ; Yields Of The Field Experiments 1998, pp 147 - 148 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/R/RAW/6

**WINTER OILSEED RAPE**

**WEEDS IN WINTER RAPE**

**Object:** To study the competitive abilities of six broad leaved weeds in winter oilseed rape - Summerdells II.

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

**Design:** 3 blocks of (6 x 3) + 2 plots.

**Whole plot dimensions:** 3.0 x 16.0.

**Treatments:** All combinations of:-

1. **WEEDS**

VP	<i>Veronica persicae</i>
GA	<i>Galium aparine</i>
SM	<i>Stellaria media</i>
VA	<i>Viola arvensis</i>
PR	<i>Papaver rhoeas</i>
CB	<i>Capsella bursa-patoris</i>

2. **DENSITY**

L	Low
M	Medium
H	High

Plus extra

**EXTRA**

- None (duplicated)

**Experimental diary:**

11-Aug-97 : B : Disced.  
15-Aug-97 : B : Ploughed and furrow pressed.  
02-Sep-97 : B : Rotary harrowed. Weed seeds broadcast as treatment.  
Rotary harrowed, Apex, dressed Vitavax RS, drilled at 120 seeds per m<sup>2</sup>.  
24-Sep-97 : B : Cyperkill 10 at 250 ml in 200 l.  
29-Oct-97 : T : **EXTRA** -: Clayton Metazachlor at 1.5 l in 220 l.  
30-Oct-97 : B : Laser at 1.0 l with Sprayprover at 1.8 l in 200 l.  
07-Nov-97 : B : Punch C at 0.4 l in 200 l. Cyperkill 10 at 250 ml in 200 l.  
04-Feb-98 : B : 34.5% N at 290 kg.  
17-Feb-98 : B : Folicur at 0.5 l in 200 l.  
02-Mar-98 : B : 34.5% N at 350 kg.  
27-Apr-98 : B : Ronilan FL at 1.0 l in 200 l.  
08-May-98 : B : Fastac at 200 ml in 260 l.

98/R/RAW/6

**Experimental diary:**

15-Jul-98 : B : Reglone at 3.0 l with Headland Enhance LF at 400 ml in  
400 l.

22-Jul-98 : B : Combine harvested.

Previous crops: W. wheat 1996, w. barley 1997.

- NOTES:** (1) Plant populations were assessed in October, December and March. Rape height and relative plant biomass was measured in January, April and June.
- (2) Because of poor establishment the yield of one plot with **WEEDS SM DENSITY H** was lost. An estimated value was used in the analysis.
- (3) *Capsella bursa-patoris* failed to establish. **WEEDS CB** plots were treated as **EXTRA** plots in the analysis.

**GRAIN TONNES/HECTARE**

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

DENSITY	L	M	H	Mean
<b>WEEDS</b>				
VP	3.99	4.12	4.14	4.08
GA	4.03	4.14	4.05	4.07
SM	4.17	3.86	4.05	4.03
VA	3.69	4.02	4.17	3.96
PR	4.03	4.29	4.15	4.16
Mean	3.98	4.09	4.11	4.06

**EXTRA** 4.11

Grand mean 4.07

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

WEEDS	DENSITY	WEEDS DENSITY
0.108	0.084	0.187

SED for comparing **EXTRA** with any item in **WEEDS.DENSITY** table is 0.145

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	41	0.230	5.6

GRAIN MEAN DM% 91.8

PLOT AREA HARVESTED 0.00301