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

Rothamsted Research

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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 : Discd.
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 m².
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
WEEDS				
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