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## Yields of the Field Experiments 1992

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### 92/R/RAW/9 Winter Oilseed Rape and Weed Competition - W. Oilseed Rape

#### Rothamsted Research

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92/R/RAW/9

WINTER OILSEED RAPE

WINTER OILSEED RAPE AND WEED COMPETITION

**Object:** To investigate the effects of four weed species on the growth and yield of w. oilseed rape - Delharding.

**Sponsor:** P.J.W. Lutman.

**Design:** 4 randomised blocks of 24 plots. Treatments balanced for blocks in two directions.

**Whole plot dimensions:** 3.0 x 14.0.

**Treatments:** All combinations of:

1. **SPECIES** Weed species:

CHICKWD	Chickweed ( <i>Stellaria media</i> )
SPEEDWEL	Speedwell ( <i>Veronica persica</i> )
CLEAVERS	Cleavers ( <i>Galium aparine</i> )
MAYWEED	Mayweed ( <i>Matricaria perforata</i> )

2. **DENSITY** Weed density (plants per square metre):

	CHICKWEED	SPEEDWELL	CLEAVERS	MAYWEED
D0	0	0	0	0
D1	148	149	4	24
D2	267	271	9	32
D3	665	623	19	97
D4	1279	1110	37	120
D5	1988	2173	78	187

**NOTE:** Target weed densities were 0, 1x, 2x, 4x, 8x and 10x plants per square metre, where 'x' approximated to 100 for chickweed and speedwell, 10 for cleavers and 50 for mayweed.

**Experimental diary:**

12-Aug-91 : B : Straw chopped.  
14-Aug-91 : B : PK as (0:16:36) at 1040 kg.  
20-Aug-91 : B : Deep tine cultivated with vibrating tines 60 cm apart, 45 cm deep.  
21-Aug-91 : B : Ploughed, rolled.  
09-Sep-91 : B : Cultivated twice by rotary grubber. Spring-tine cultivated, rolled.  
10-Sep-91 : T : **SPECIES** CHICKWD, SPEEDWEL, CLEAVERS: Chickweed, speedwell and cleavers broadcast by hand.  
11-Sep-91 : B : Libravo, dressed Hydraguard and Rovral WP, drilled at 6.1 kg, rolled.  
14-Sep-91 : T : **SPECIES** MAYWEED: Mayweed broadcast by hand.  
15-Oct-91 : B : Pilot at 75 ml with Actipron at 2.0 l in 200 l.  
14-Jan-92 : T : **DENSITY** D0: Benazalox at 1.25 kg and Kerb 50 W at 1.0 kg in 220 l.  
19-Feb-92 : B : 34.5% N at 220 kg.

92/R/RAW/9

**Experimental diary:**

25-Mar-92 : B : 34.5% N at 290 kg.  
 20-Jul-92 : B : Reglone at 3.0 l with Farmon Blue at 0.52 l in 260 l.  
 27-Jul-92 : T : Combine harvested.

Previous crops: W. wheat 1990, w. barley 1991.

**NOTE:** Estimation of crop growth and observations and counts of weeds were made during the growing season.

**GRAIN (AT 90% DRY MATTER) TONNES/HECTARE**

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

DENSITY SPECIES	D0	D1	D2	D3	D4	D5	Mean
CHICKWD	2.98	2.43	2.38	2.12	2.58	2.75	2.54
SPEEDWEL	3.34	3.04	2.87	3.40	3.23	2.78	3.11
CLEAVERS	3.11	2.93	3.33	2.91	2.46	2.74	2.91
MAYWEED	2.95	3.01	2.95	3.05	3.30	2.74	3.00
Mean	3.10	2.85	2.88	2.87	2.89	2.75	2.89

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

SPECIES	DENSITY	SPECIES
		DENSITY
0.150	0.184	0.369

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	69	0.521	18.0

GRAIN MEAN DM% 89.1

PLOT AREA HARVESTED 0.00230