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93/R/RAW/9 Weed Competition - Rape and Mayweed - W. Oilseed Rape

Rothamsted Research

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93/R/RAW/9

WINTER OILSEED RAPE

WEED COMPETITION - RAPE AND MAYWEED

Object: To study the competitive effect of mayweed (*Matricaria perforata*) on the growth and yield of w. oilseed rape - Summerdells II.

Sponsors: P.J.W. Lutman.

Design: 4 blocks of 6 plots.

Whole plot dimensions: 3.0 x 14.0.

Treatments:

WEED DEN	Density of mayweed (plants per square metre):
D0	0
D1	20
D2	40
D3	86
D4	150
D5	400

- NOTES:** (1) Target **WEED DEN** (plants per square metre): D0 0, D1 12.5, D2 25, D3 50, D4 100, D5 200.
(2) Mayweed seeds were broadcast by hand in the central 2.5 m of the plot.

Experimental diary:

- 28-Jul-92 : B : Shallow cultivated with Bomford Dynadrive.
18-Aug-92 : B : Sting CT at 1.5 l in 200 l.
26-Aug-92 : B : Ploughed, furrow pressed.
15-Sep-92 : B : Rotary harrowed twice, Falcon, dressed Lindex-Plus FS, drilled at 120 seeds per square metre.
 : T : **WEED DEN:** Weed seeds broadcast, raked in.
16-Sep-92 : B : Rolled.
22-Oct-92 : B : Draza at 5.5 kg.
18-Feb-93 : B : 34.5% N at 170 kg.
23-Mar-93 : B : 34.5% N at 370 kg.
17-Jul-93 : B : Reglone at 3.0 l with Vassgro Spreader at 0.40 l in 400 l.
28-Jul-93 : B : Combine harvested.

Previous crops: W. wheat 1991, w. barley 1992.

NOTE: Emergence counts were made and samples of weed and crop taken on four occasions throughout the season for observations, counts and growth estimations.

93/R/RAW/9

GRAIN TONNES/HECTARE

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

WEED DEN	
D0	3.33
D1	2.67
D2	1.89
D3	1.81
D4	1.65
D5	1.02
Mean	2.06

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

WEED DEN
0.194

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	15	0.274	13.3
GRAIN MEAN DM%	88.0		
PLOT AREA HARVESTED	0.00253		