Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



# Yields of the Field Experiments 1997



Full Table of Content

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

### **Rothamsted Research**

Rothamsted Research (1998) 97/R/RAW/1 Growth of Weeds and Rape - W. Oilseed Rape; Yields Of The Field Experiments 1997, pp 127 - 129 - DOI: https://doi.org/10.23637/ERADOC-1-53

#### 97/R/RAW/1

#### WINTER OILSEED RAPE

#### GROWTH OF WEEDS AND RAPE

Object: To investigate factors influencing the vigour of w. rape grown in competition with chickweed and volunteer barley - Bones Close

Sponsors: P.J.W. Lutman.

Design: 2 randomised blocks of 30 plots.

Whole plot dimensions:  $3.0 \times 15.0$ .

#### Treatments:

1.	BARL DEN	Barley (Gleam dressed Raxil S) density, mean plants per $\ensuremath{\text{m}}^2\colon$
	в0	0
	B1	66
	B2	160
	В3	280
	B4	448
	B5	461
	В6	567
2.	CHCK DEN	Chickweed (Stellaria media) density, mean plants per m2:
	C0	0
	C1	119
	C2	327
	C3	598
	C4	734
	C5	1536
	C6	2119

NOTE: Target weed populations and combinations were as follows:

Target weed populations: Plants per m2.

500
x

#### 97/R/RAW/1

```
Experimental diary:
   09-Sep-96 : B : Chalk at 2.5 t.
  09-Sep-96 : B : Ploughed and furrow pressed.
   10-Sep-96 : B : Harrowed.
   11-Sep-96: T: Chickweed and barley broadcast by hand. Rotary
                      harrowed, Apex, dressed Vitavax RS, drilled at 120
                      seeds per m2.
   12-Sep-96 : B : Rolled.
   17-Oct-96 : B : Irrigated 25 mm.
   14-Nov-96 : B : Tigress at 1.75 l in 200 l.
   21-Nov-96 : T : BARL DEN 0, CHCK DEN 0: Katamaran at 2.5 1 in 220 1.
   05-Dec-96 : T : CHCK DEN 0: Galtak 50 SC at 1.5 l in 200 l.
   28-Feb-97 : B : 34.5% N at 175 kg.
   11-Mar-97 : T : CHCK DEN 0: Galtak 50 SC at 1.5 1 in 220 1.
   26-Mar-97 : B : 34.5% N at 350 kg.
   09-Apr-97 : B : Barclay Eyetak at 1.1 l with Fastac at 200 ml in 300 l.
   21-Jul-97 : B : Reglone at 3.0 1 with Vassgro Non-ionic at 392 ml in
                       400 1.
   28-Jul-97 : B : Combine harvested.
```

Previous crops: W. wheat 1995, s. wheat 1996.

- NOTE: (1) The crop failed on 12 plots and one plot (treatment BARL DEN B6, CHCK DEN C0) yield was lost because of a combine error. The blocks were removed as a covariate to avoid estimating missing values. For treatment combinations lost see note after SED table in the analysis.
  - (2) Assessments of weed emergence were made in autumn. Crop and weed biomass was measured in December, May and June. Visual assessments of ground cover were made in December and plant heights were measured in March.

#### 97/R/RAW/1

## CLEANED GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

CHCK		C0	C1	C2	C3	C4	C5	C6
	BO	3.97	3.80	3.76	3.40	3.10	2.84	2.86
	B1	2.91	2.68	2.81	2.60	2.38		
	B2	2.15	3.40	2.71	2.28	2.42		
	B3	2.06	1.62	1.63	1.37	1.99		
	B4	1.41	2.17	1.83	1.46	1.00		
	B5	1.55						
	B6	0.74						

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

BARL DEN

CHCK DEN

0.397 min.rep 0.362 max-min

BARL DEN

CHCK DEN

min.rep Any of the remainder max-min B0.C0 v any of the remainder

NOTE: SED applies only to the following treatment combinations:-B0.C0, B0.C2, B0.C5, B0.C6, B1.C1, B1.C2, B1.C3, B1.C4, B2.C2, B2.C3, B2.C4, B3.C0, B3.C3, B3.C4, B4.C0, B4.C1 and B4.C3.

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

Stratum d.f. s.e. cv%
BLOCK.WP 17 0.397 16.5

GRAIN MEAN DM% 88.0