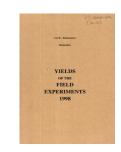
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# Yields of the Field Experiments 1998



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

#### **Rothamsted Research**

Rothamsted Research (1999) 98/R/RAW/1 Growth of Weeds and Rape - W. Oilseed Rape; Yields Of The Field Experiments 1998, pp 139 - 141 - DOI: https://doi.org/10.23637/ERADOC-1-52

#### 98/R/RAW/1

#### WINTER OILSEED RAPE

#### GROWTH OF WEEDS AND RAPE

Object: To investigate factors influencing the vigour of winter rape grown in competition with chickweed and barley - Summerdells II.

Sponsors: P.J.W. Lutman.

Design: 48 plots single replicate.

Whole plot dimensions: 3.0 x 16.0.

Treatments: All singly and certain combinations of:

1.	BARL DEN	Barley (cultivar Gleam), target plants per ${\tt m}^2\colon$
	В0	0
	B1	20
	B2	40
	B3	60
	B4	80
	B5	100
	B6	120
	B7	150
	B8	180
	B9	220
	B10	260
	B11	300
	B12	400
2.	CHCK DEN	Chickweed (stellaria media), target plants per m:
	CO	0
	C1	30
	C2	60
	C3	90
	C4	120
	C5	150
	C6	180
	C7	220
	C8	280
	C9	340
	C10	400
	C11	600
	C12	800

NOTE: B0.00 combination was quadruplicated.

#### Experimental diary:

11-Aug-97 : B : Disced.

15-Aug-97 : B : Ploughed and furrow pressed.

01-Sep-97 : B : Rotary harrowed.

#### 98/R/RAW/1

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Experimental diary:
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01-Sep-97 : T : Barley and chickweed seed broadcast as treatment.
          : B : Apex, dressed Vitavax RS, drilled at 120 seeds per m2.
24-Sep-97 : B : Cyperkill 10 at 250 ml in 200 1.
29-Oct-97 : T : CHCK DEN C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11,
                    C12 BARL DEN BO CHCK DEN CO: Laser at 1.0 l with Atlas
                    Adjuvant Oil at 1.8 1 in 220 1.
          : T : : BARL DEN BO CHCK DEN CO: Clayton Metazachlor at 1.5 l
                    in 220 1.
07-Nov-97 : B : Punch C at 0.4 l in 200 l. Cyperkill 10 at 250 ml in
                    200 1.
04-Feb-98 : B : 34.5% N at 290 kg.
17-Feb-98 : B : Folicur at 0.5 1 in 200 1.
02-Mar-98 : B : 34.5% N at 350 kg.
27-Apr-98 : B : Ronilan FL at 1.0 1 in 200 1.
08-May-98 : B : Fastac at 200 ml in 260 l.
15-Jul-98 : B : Reglone at 3.0 1 with Headland Enhance LF at 400 ml in
                    400 1.
24-Jul-98 : B : Combine harvested.
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Previous crops: W. wheat 1996, w. barley 1997.

## NOTES: (1) Plant populations were assessed in autumn. Plant samples were taken in November, March, May and July to measure relative amounts

of biomass. Number of rape flower heads were estimated in April and before harvest an assessment of lodging was made.

(2) The grain yields from all plots contained weed seeds. A sample weighing over 2 kg was taken from each plot. This sample was weighed before and after the removal of weed seeds. These figures were used to estimate the cleaned grain yield.

(3) Two plots were removed from the analysis; B8.C3 because of animal damage; B8.C10 because of severe early lodging.

#### 98/R/RAW/1

#### GRAIN TONNES/HECTARE

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

CHCK	DEN	CO	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
BARL														
	B0	4.91	4.49	4.40	4.29	4.37	5.04	4.78	4.54	4.23	4.72	4.61	4.58	4.22
	B1	4.47			4.53		4.03		4.58			4.49		
	B2	4.79			4.47		4.41		3.91			3.48		
	В3	5.11												
	B4	4.92			5.16		4.52		4.62			3.93		
	B5	4.76												
	B6	4.41			3.27		3.87		3.87			3.76		
	B7	4.51												
	B8	5.25					3.60		4.11					
	B9	4.37												
	B10	5.56												
	B11	4.60												
	B12	5.00												

GRAIN MEAN DM% 88.7

#### CLEAN GRAIN TONNES/HECTARE, AFTER REMOVING WEED SEEDS

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

CHCK	DEN	CO	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
BARL	DEN													
	B0	4.81	4.31	4.21	4.18	4.29	4.96	4.73	4.40	4.18	4.66	4.55	4.42	4.14
	B1	3.73			4.40		3.87		4.25			4.37		
	B2	3.94			4.17		4.29		3.61			3.26		
	B3	3.48												
	B4	4.69			4.73		4.29		4.29			2.62		
	B5	4.09												
	B6	4.12			2.96		2.90		2.92			2.45		
	B7	4.07												
	B8	4.19					2.60		2.60					
	B9	3.85												
	B10	5.11												
	B11	3.96												
	B12	3.91												

PLOT AREA HARVESTED 0.00301