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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

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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 m²:

B0	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 m²:

C0	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.C0 combination was quadruplicated.

Experimental diary:

11-Aug-97 : B : Discd.
15-Aug-97 : B : Ploughed and furrow pressed.
01-Sep-97 : B : Rotary harrowed.

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Experimental diary:

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 l.
29-Oct-97 : T : **CHCK DEN** C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11,
 C12 **BARL DEN** B0 **CHCK DEN** C0: Laser at 1.0 l with Atlas
 Adjuvant Oil at 1.8 l in 220 l.
 : T : : **BARL DEN** B0 **CHCK DEN** C0: Clayton Metazachlor at 1.5 l
 in 220 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.
15-Jul-98 : B : Reglone at 3.0 l with Headland Enhance LF at 400 ml in
 400 l.
24-Jul-98 : B : Combine harvested.

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.

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GRAIN TONNES/HECTARE

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

CHCK DEN	C0	C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12
BARL DEN													
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		
B3	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	C0	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