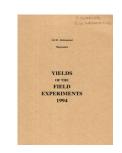
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1994



Full Table of Content

94/R/RAW/8 Weed Competition - Rape Drilling Date and Chickweed - W. Oilseed Rape

Rothamsted Research

Rothamsted Research (1995) 94/R/RAW/8 Weed Competition - Rape Drilling Date and Chickweed - W. Oilseed Rape; Yields Of The Field Experiments 1994, pp 124 - 126 - DOI: https://doi.org/10.23637/ERADOC-1-49

94/R/RAW/8

WINTER OILSEED RAPE

WEED COMPETITION - RAPE DRILLING DATE AND CHICKWEED

Object: To study the effect of chickweed (Stellaria media) on the growth and yield of w. rape sown on three different dates - Appletree.

Sponsor: P.J.W. Lutman.

Design: 3 randomised blocks of 3 plots split into 6 sub-plots.

Whole plot dimensions: 3.0×14.0 .

Treatments:

Whole plots

1. SOW DATE	Target so	wing	date	of	w.	rape:
SE	Early, 20	-25	Aug			
SM	Middle, 5	-10	Sept			

SL Late, 15-20 Sept

Sub-plots

2. WEED DEN Weed density, plants per m2:

	SE	SM	SL
D0	0	0	0
D1	35	54	39
D2	130	156	112
D3	304	414	342
D4	790	887	659
OS	0	0	0

NOTES: (1) No herbicide applied to D0 plots, herbicide applied to OS plots.
OS plots (SE and SM only) were also hand weeded in spring.

(2) Target weed densities were D0 and OS 0, D1 50, D2 150, D3 450 and D4 900 plants per $\rm m^2$.

Experimental diary:

19-Jul-93 : B : Cultivated with rotary grubber.

29-Jul-93 : B : Deep time cultivated with vibrating times 60 cm apart and 45 cm deep.

02-Aug-93 : B : Rolled.

16-Aug-93 : B : PK as (0:18:36) at 1250 kg.

18-Aug-93 : B : Ploughed and furrow pressed, rolled.

25-Aug-93 : T : SOW DATE SE: Rotary harrowed, chickweed broadcast by hand. Rotary harrowed, Falcon, dressed Lindex-Plus FS, drilled at 120 seeds per m².

07-Sep-93 : **T** : **SOW DATE** SM: Rotary harrowed, chickweed broadcast by hand. Rotary harrowed, Falcon, dressed Lindex-Plus FS, drilled at 120 seeds per m².

94/R/RAW/8

Experimental diary: 23-Sep-93 : T : SOW DATE SL: Rotary harrowed, chickweed broadcast by hand. Rotary harrowed, Falcon, dressed Lindex-Plus FS, drilled at 120 seeds per m2. 07-Oct-93 : B : Draza at 5.5 kg. 17-Dec-93 : T : WEED DEN OS: Kerb Flo at 1.75 1 in 220 1. : T : SOW DATE SE, SM, WEED DEN D1-D4: Synchemicals Dalapon at 3.4 kg in 220 1. 31-Jan-94 : T : SOW DATE SL, WEED DEN D1-D4: Synchemicals Dalapon at 3.4 kg in 220 1. 08-Mar-94 : B : 34.5% N at 162 kg. 11-Apr-94 : B : 34.5% N at 346 kg. 19-May-94 : T : SOW DATE SL: Fastac at 200 ml in 200 1. 21-Jul-94 : B : Landgold Diquat at 3.0 1 with Vassgro Spreader at 300 ml in 300 1. 27-Jul-94: B: Combine harvested.

Previous crops: Potatoes 1992, set-aside 1993.

- NOTE: (1) Crop and weed densities were assessed and samples were taken to measure plant growth in December and March.
 - (2) The yields on two plots were treated as missing because of severe lodging, with treatment combinations:

SOW DATE SM SM WEED DEN D2 OS

Estimated values were used in the analysis.

94/R/RAW/8

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

**** Tables of means ****

WEED DEN SOW DATE	D0	D1	D2	D3	D4	os	Mean
SE	2.98	3.81	3.74	3.72	3.55	4.12	3.65
SM	2.16	3.55	3.58	3.54	3.70	4.00	3.42
SL	4.10	3.33	3.32	3.27	3.17	4.06	3.54
Mean	3.08	3.56	3.55	3.51	3.47	4.06	3.54

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

	SOW DATE	WEED DEN	SOW DATE
			WEED DEN
	0.286	0.160	0.382
Except when	comparing means	with the same	level(s) of
SOW DATE			0.278

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

Stratum	d.f.	s.e.	CV%	
BLOCK.WP	4	0.351	9.9	
BLOCK.WP.SP	28	0.340	9.6	

GRAIN MEAN DM% 89.6

SUB PLOT AREA HARVESTED 0.00290