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Yields of the Field Experiments 1996



Full Table of Content

96/R/RAW/6 Growth of Weeds and Rape - W. Oilseed Rape

Rothamsted Research

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96/R/RAW/6

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 - Fosters.

Sponsor: P.J.W. Lutman.

Design: 3 blocks of 2 plots split into 3 x 3 sub-plots.

Sub-plot dimensions: 3.0 x 14.0.

Treatments:

Whole plots

1.	SOW	DATE	Sowing	date:

SE Early, 06-Sep-95 SL Late, 21-Sep-95

Sub-plots

CROP DEN Crop density, seeds per m²:

DL 100 DM 180 DH 260

3. WEED Weed type and seed rate:

- None

WC Chickweed (Stellaria media), sown at 2000 seeds per m²

WB S. barley (cv. Magie, dressed Rappor), sown at 320 seeds per m²

NOTE: Weeds were broadcast just before drilling the w. rape.

Experimental diary:

05-Aug-95 : B : Ploughed and furrow pressed. Rolled.

05-Sep-95 : B : Irrigated 20 mm.

06-Sep-95 : T : SOW DATE SE: Rotary harrowed, Apex, dressed Lindex-Plus FS, drilled.

21-Sep-95 : T : SOW DATE SL: Rotary harrowed, Apex, dressed Lindex-Plus FS, drilled.

22-Sep-95 : B : Draza at 5.5 kg.

23-Sep-95 : B : Cyperkill 10 at 250 ml with Agral at 300 ml in 300 l.

29-Sep-95 : T : SOW DATE SE, WEED -, WB: Butisan S at 1.5 1 in 220 1.

30-Oct-95 : T : SOW DATE SL, WEED -: Butisan S at 1.5 1 in 220 1.

10-Jan-96 : T : SOW DATE SE, WEED WC: Carbetamex at 3.0 kg in 220 1.

29-Feb-96 : B : 34.5% N at 174 kg.

09-Apr-96 : B : 34.5% N at 348 kg.

11-Apr-96 : B : Folicur at 0.5 1 in 300 1.

96/R/RAW/6

Experimental diary:

25-Apr-96 : B : Decis at 0.5 1 in 200 1.

22-Jul-96 : B : Reglone at 3.0 1 with Vassgro Spreader at 390 ml in

390 1.

31-Jul-96 : B : Combine harvested.

Previous crops: W. wheat 1994, set-aside 1995.

NOTES: (1) Rape and weed plant densities were assessed in autumn. Crop and weed samples were taken on four occasions for dry matter assessments.

(2) Crop failed on three plots with treatment combinations:

SOW DATE SE SL SE CROP DEN DL DL DH WEED WB - WC

Estimated values were used in the analysis.

(3) A sub-sample was taken to measure weed contamination in the grain. Estimated cleaned grain yields are presented

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

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

CROP DEN	DL	DM	DH	mean
SOW DATE				
SE	3.62	3.88	4.04	3.84
SL	2.85	3.18	3.07	3.03
mean	3.23	3.53	3.55	3.44
WEED	_	WC	WB	mean
SOW DATE				
SE	4.85	4.66	2.02	3.84
SL	4.31	2.92	1.87	3.03
mean	4.58	3.79	1.95	3.44
WEED	-	WC	WB	mean
CROP DEN				
DL	4.64	3.76	1.30	3.23
DM	4.68	3.96	1.96	3.53
DH	4.43	3.66	2.58	3.55
mean	4.58	3.79	1.95	3.44
	WEED	-	WC	WB
SOW DATE	CROP DEN			
SE	DL	4.85	4.69	1.33
	DM	4.82	4.79	2.04
	DH	4.90	4.52	2.69
SL	DL	4.43	2.83	1.28
	DM	4.53	3.13	1.88
	DH	3.96	2.80	2.46

96/R/RAW/6

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

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

CROP DEN	WEED	SOW DATE*
		CROP DEN
0.209	0.209	0.295
SOW DATE*	CROP DEN	SOW DATE*
WEED	WEED	CROP DEN
		WEED
0.295	0.361	0.511

^{*} Within the same level of SOW DATE only

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

Stratum d.f. s.e. cv%

BLOCK.WP.SP 29 0.626 18.2

GRAIN MEAN DM% 88.2

SUB-PLOT AREA HARVESTED 0.00281 (36 Plots) or 0.00258 (18(Plots)