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94/R/RAW/6

WINTER OILSEED RAPE

WINTER OILSEED RAPE AND WEED SPECIES

Object: To establish the relative competitive abilities of a range of common broad-leaved weeds in w. rape - Appletree.

Sponsors: P.J.W. Lutman.

Design: 3 blocks of (7 x 2) + 2 plots.

Whole plot dimensions: 3.0 x 14.0.

Treatments: All combinations of:-

1. **SPECIES** Weed species sown:

SM	<i>Stellaria media</i> (chickweed)
GA	<i>Galium aparine</i> (cleavers)
MP	<i>Matricaria perforata</i> (mayweed)
VA	<i>Viola arvensis</i> (pansy)
SA	<i>Sinapis arvensis</i> (charlock)
LP	<i>Lamium purpureum</i> (red dead-nettle)
PR	<i>Papaver rhoeas</i> (poppy)

2. **DENSITY**

D1	Moderate
D2	High

plus 2 extra plots

3. **EXTRA** No weeds sown, herbicide application:

OS	Applied
OU	Not applied

Experimental diary:

19-Jul-93 : B : Cultivated by rotary grubber.
29-Jul-93 : B : Deep tine cultivated with vibrating tines, 60 cm apart, 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.
07-Sep-93 : B : Rotary harrowed.
 : T : **SPECIES** SM, GA, VA, SA, LP, PR: Weed seeds broadcast by hand.
 : B : Rotary harrowed twice, Falcon, dressed Lindex-Plus FS, drilled at 120 seeds per m².
 : T : **SPECIES** MP: Weed seeds broadcast by hand.
07-Oct-93 : B : Draza at 5.5 kg.
17-Dec-93 : T : **SPECIES** GA, MP, VA, SA, LP, PR and **EXTRA** OS: Kerb Flo at 1.75 l in 220 l.
08-Mar-94 : B : 34.5% N at 162 kg.

94/R/RAW/6

Experimental diary:

11-Apr-94 : B : 34.5% N at 346 kg.
 21-Jul-94 : B : Landgold Diquat at 3.0 l with Vassgro Spreader at 300 ml
 in 300 l.
 29-Jul-94 : B : Combine harvested.

Previous crops: Potatoes 1992, set-aside 1993.

NOTES: (1) Crop and weed densities were assessed in autumn. Crop and weed dry weights were measured in December and April.
 (2) Yields, cleaned of weed seeds, are presented.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

DENSITY SPECIES	D1	D2	Mean
SM	3.19	3.45	3.32
GA	3.72	2.42	3.07
MP	3.94	4.08	4.01
VA	4.02	3.89	3.96
SA	2.25	0.83	1.54
LP	3.99	3.42	3.71
PR	4.07	4.05	4.06
Mean	3.60	3.16	3.38
EXTRA			
OS	3.91		
OU	3.25		
Mean	3.58		

GRAND MEAN 3.41

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

SPECIES	DENSITY	SPECIES DENSITY & EXTRA
0.169	0.090	0.239

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	30	0.293	8.6

GRAIN MEAN DM% 84.6

PLOT AREA HARVESTED 0.00253