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Yields of the Field Experiments 2000

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00/R/LNW/2 Weeds in Winter Linseed

Rothamsted Research

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00/R/LNW/2

LINSEED

WEEDS IN WINTER LINSEED

Object: To study the competitive effects of two broad-leaved weeds on the growth and yield of autumn-sown linseed - Drapers.

Sponsor: P.J.W. Lutman.

Design: 3 randomised blocks of 2 x 4 x 2 + 2.

Plot dimensions: 3.0 x 16.0.

Treatments: All combinations of:-

1. TIMEWEED Timing of weed removal:

- None
SP Spring

2. WEEDDENS Weed density:

L Low
M Medium
H High
VH Very high

3. WEEDSPEC Weed species:

CH Chickweed (*Stellaria media*)
CL Cleavers (*Galium aparine*)

EXTRA

N0 Control (no weeds planted), duplicated

Experimental diary:

30-Sep-99 : B : : tm)PDQ at 3.0 l in 200 l.
 : B : : tm)Enhance Low Foam at 100 ml in 200 l.
05-Oct-99 : B : : Rotary harrowed.
 : T : CH,CL : Weed seed broadcast as treatment.
 : B : : Rotary harrowed, drilled, Oliver, tr. Prelude 20 LF at
 950 seeds/m2 with the Accord drill.
07-Oct-99 : B : : Rolled.
24-Feb-00 : B : : tm)Laser at 1.0 l in 200 l.
 : B : : tm)Cropoil at 2.0 l in 200 l.
09-Mar-00 : B : : 34.5% N at 145 kg.
13-Mar-00 : T : N0,SP : Eagle at 40 g in 220 l.
31-Mar-00 : B : : 34.5% N at 116 kg.
26-Jul-00 : B : : tm)Enhance Low Foam at 400 ml in 400 l.
 : B : : tm)Reglone at 3.0 l in 400 l.
01-Aug-00 : B : : Combine harvested.

Previous crops: Linseed 1998, w. barley 1999.

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NOTE: Emergence of weeds and crop was monitored from October to March. Crop and weeds were sampled in March, May and July. Lodging and weed abundance were assessed in late July.

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE (FROM COMBINE HARVESTER)

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

TIMEWEED	-	SP	Mean
WEEDDENS			
L	1.17	1.36	1.27
M	1.34	1.46	1.40
H	1.24	1.46	1.35
VH	1.28	1.28	1.28
Mean	1.26	1.39	1.32

WEEDSPEC	CH	CL	Mean
WEEDDENS			
L	1.29	1.25	1.27
M	1.29	1.51	1.40
H	1.28	1.42	1.35
VH	1.16	1.40	1.28
Mean	1.25	1.39	1.32

WEEDSPEC	CH	CL	Mean
TIMEWEED			
-	1.08	1.43	1.26
SP	1.42	1.36	1.39
Mean	1.25	1.39	1.32

TIMEWEED	-	SP	CL
WEEDSPEC			
WEEDDENS			
L	1.06	1.28	1.51
M	1.15	1.53	1.43
H	1.05	1.44	1.52
VH	1.08	1.48	1.24

EXTRA N0 1.29

Grand mean 1.32

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

WEEDSPEC	WEEDDENS	TIMEWEED	WEEDSPEC
			WEEDDENS
0.050	0.071	0.050	0.100
WEEDSPEC	WEEDDENS	WEEDSPEC	
TIMEWEED	TIMEWEED	WEEDDENS	
		TIMEWEED	
0.071	0.100	0.141	

S.e.d. for comparing N0 with any item in the WEEDSPEC.WEEDDENS.TIMEWEED table is 0.122

00/R/LNW/2

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE (FROM COMBINE HARVESTER)

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	35	0.173	13.1

GRAIN MEAN DM% 90.1

PLOT AREA HARVESTED 0.00326

CLEAN GRAIN (AT 90% DRY MATTER) TONNES/HECTARE (WEED SEED REMOVED)

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

TIMEWEED	-	SP	Mean
WEEDDENS			
L	0.85	1.32	1.08
M	0.95	1.38	1.17
H	0.89	1.39	1.14
VH	0.88	1.24	1.06

Mean	0.89	1.33	1.11
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WEEDSPEC	CH	CL	Mean
WEEDDENS			
L	1.17	1.00	1.08
M	1.14	1.20	1.17
H	1.11	1.17	1.14
VH	1.03	1.08	1.06

Mean	1.11	1.11	1.11
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WEEDSPEC	CH	CL	Mean
TIMEWEED			
-	0.86	0.93	0.89
SP	1.37	1.29	1.33

Mean	1.11	1.11	1.11
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TIMEWEED	-	SP	CH	CL
WEEDSPEC				
WEEDDENS				
L	0.87	0.83	1.47	1.16
M	0.89	1.01	1.38	1.38
H	0.80	0.99	1.43	1.35
VH	0.87	0.88	1.20	1.28

EXTRA N0 1.22

Grand mean 1.12

00/R/LNW/2

CLEAN GRAIN (AT 90% DRY MATTER) TONNES/HECTARE (WEED SEED REMOVED)

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

WEEDSPEC	WEEDDENS	TIMEWEED	WEEDSPEC WEEDDENS
0.043	0.061	0.043	0.086
WEEDSPEC TIMEWEED	WEEDDENS TIMEWEED	WEEDSPEC WEEDDENS TIMEWEED	
0.061	0.086	0.122	

S.e.d. for comparing N0 with any item in the WEEDSPEC.WEEDDENS.TIMEWEED table is 0.106

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	35	0.149	13.3

GRAIN MEAN DM% 90.1

PLOT AREA HARVESTED 0.00326