

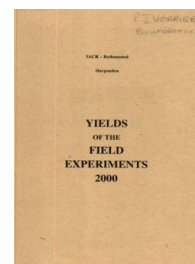
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## Yields of the Field Experiments 2000

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### 00/R/LNW/2 Weeds in Winter Linseed

#### Rothamsted Research

Rothamsted Research (2001) *00/R/LNW/2 Weeds in Winter Linseed* ; Yields Of The Field Experiments 2000, pp 157 - 160 - DOI: <https://doi.org/10.23637/ERADOC-1-55>

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.

00/R/LNW/2

**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 \*\*\*\*\*

<b>TIMEWEED</b>	-	SP	Mean
<b>WEEDDENS</b>			
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

<b>WEEDSPEC</b>	CH	CL	Mean
<b>WEEDDENS</b>			
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

<b>WEEDSPEC</b>	CH	CL	Mean
<b>TIMEWEED</b>			
-	1.08	1.43	1.26
SP	1.42	1.36	1.39
Mean	1.25	1.39	1.32

<b>TIMEWEED</b>	-	SP	CL	CH
<b>WEEDSPEC</b>	CH	CL	CH	CL
<b>WEEDDENS</b>				
L	1.06	1.28	1.51	1.22
M	1.15	1.53	1.43	1.49
H	1.05	1.44	1.52	1.40
VH	1.08	1.48	1.24	1.32

**EXTRA N0** 1.29

Grand mean 1.32

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

<b>WEEDSPEC</b>	<b>WEEDDENS</b>	<b>TIMEWEED</b>	<b>WEEDSPEC</b>
			<b>WEEDDENS</b>
0.050	0.071	0.050	0.100
<b>WEEDSPEC</b>	<b>WEEDDENS</b>	<b>WEEDSPEC</b>	
<b>TIMEWEED</b>	<b>TIMEWEED</b>	<b>WEEDDENS</b>	
		<b>TIMEWEED</b>	
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
<b>WEEDDENS</b>			
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
<b>WEEDDENS</b>			
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
<b>TIMEWEED</b>			
-	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
<b>WEEDSPEC</b>				
<b>WEEDDENS</b>				
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