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99/R/LNW/2 Weeds in Winter Linseed - Linseed

Rothamsted Research

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99/R/LNW/1

GRAIN TONNES/HECTARE

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

DIS CONT

-	2.40
AF	2.23
BM	2.41
BMC	2.34
AM	2.25
AMC	2.07
CM	2.62
CMC	2.32
PM	2.20
APM	2.45
Mean	2.33

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

DIS CONT

0.221

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	18	0.271	11.7

GRAIN MEAN DM% 91.9

PLOT AREA HARVESTED 0.00276

99/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 - Webbs.

Sponsor: P.J.W. Lutman.

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

Plot dimensions: 4.0 x 13.0.

Treatments: All combinations of:-

1. **TIMEWEED** Timing of weed removal:

- None
SP Spring

2. **WEEDENS** Weed density:

L Low
M Medium
H High
VH Very high

3. **WEEDSPEC** Weed species:

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

EXTRA

NO Control (no weeds planted) duplicated

Experimental diary:

17-Sep-98 : B : : Farmyard manure at 4.0 t.
23-Sep-98 : B : : Ploughed and furrow pressed started.
24-Sep-98 : B : : Ploughed, completed.
12-Oct-98 : B : : Spring-tined.
 : T : CH,CL : Weed seed broadcast as treatment.
 : B : : Combination drilled, Oliver, tr. Prelude 20 LF, at
 950 seeds/m² with the Accord drill.
13-Oct-98 : B : : Hardy at 10.0 kg.
24-Mar-99 : B : : 34.5% N at 348 kg.
25-Mar-99 : B : : tm)Laser at 1.0 l in 200 l.
 : B : : tm)Cropoil at 2.0 l in 200 l.
08-Apr-99 : T : SP : Eagle at 40 g in 200 l.
30-Apr-99 : T : NO : Eagle at 30 g in 220 l.
11-Jun-99 : B : : tm)Bavistin DF at 0.5 l in 200 l.
 : B : : tm)Sipcam UK Rover 500 at 1.0 l in 200 l.
09-Jul-99 : B : : tm)Reglone at 3.0 l in 400 l.
 : B : : tm)Enhance at 400 ml in 400 l.
23-Jul-99 : B : : Combine harvested.

99/R/LNW/2

Previous crops: Maize 1997, w. barley 1998.

GRAIN TONNES/HECTARE (FROM COMBINE HARVESTER)

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

TIMEWEED	-	SP	Mean
WEEDDENS			
L	2.43	2.27	2.35
M	2.28	2.28	2.28
H	2.53	2.23	2.38
VH	2.36	2.37	2.36
Mean	2.40	2.29	2.34

WEEDSPEC	CH	CL	Mean
WEEDDENS			
L	2.34	2.36	2.35
M	2.29	2.27	2.28
H	2.31	2.45	2.38
VH	2.37	2.36	2.36
Mean	2.33	2.36	2.34

WEEDSPEC	CH	CL	Mean
TIMEWEED			
-	2.40	2.40	2.40
SP	2.26	2.32	2.29
Mean	2.33	2.36	2.34

TIMEWEED	-	SP	CH	CL
WEEDSPEC	CH	CL		
WEEDDENS				
L	2.49	2.37	2.19	2.36
M	2.37	2.19	2.21	2.35
H	2.48	2.58	2.13	2.32
VH	2.24	2.48	2.51	2.24

EXTRA NO 2.58

Grand mean 2.37

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

WEEDSPEC	WEEDDENS	TIMEWEED	WEEDSPEC
			WEEDDENS
0.081	0.115	0.081	0.162
WEEDSPEC	WEEDDENS	WEEDSPEC	
TIMEWEED	TIMEWEED	WEEDDENS	
		TIMEWEED	
0.115	0.162	0.229	

S.e.d. for comparing NO with any item in the **WEEDSPEC.WEEDDENS.TIMEWEED** table is 0.199

99/R/LNW/2

GRAIN TONNES/HECTARE (FROM COMBINE HARVESTER)

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	35	0.281	11.9
GRAIN MEAN DM%	92.9	PLOT AREA HARVESTED	0.00230

CLEAN GRAIN TONNES/HECTARE (WEED SEED REMOVED)

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

TIMEWEED	-	SP	Mean	
WEEDDENS				
L	2.31	2.25	2.28	
M	2.11	2.26	2.19	
H	2.34	2.21	2.28	
VH	2.18	2.35	2.26	
Mean	2.24	2.27	2.25	
WEEDSPEC	CH	CL	Mean	
WEEDDENS				
L	2.31	2.25	2.28	
M	2.25	2.12	2.19	
H	2.26	2.29	2.28	
VH	2.35	2.18	2.26	
Mean	2.29	2.21	2.25	
WEEDSPEC	CH	CL	Mean	
TIMEWEED				
-	2.35	2.12	2.24	
SP	2.23	2.30	2.27	
Mean	2.29	2.21	2.25	
TIMEWEED	-		SP	
WEEDSPEC	CH	CL	CH	CL
WEEDDENS				
L	2.45	2.17	2.17	2.34
M	2.33	1.90	2.18	2.34
H	2.41	2.27	2.11	2.31
VH	2.22	2.13	2.48	2.22

EXTRA NO 2.56

Grand mean 2.29