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Yields of the Field Experiments 1994



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Rothamsted Research

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94/R/M/1

MIXED 1

SOWING DATE AND INSECTICIDE

Object: To compare the consequences for w. wheat and w. barley of sowing at different times in the autumn and treating or not with insecticide - Osier.

Sponsor: R.T. Plumb.

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

Whole plot dimensions: 3.0 x 21.0.

Treatments: All combinations of:-

1. CROP

WW W. wheat W. barley

2. SOW DATE Date of sowing:

E First half of September
M Second half of September
L First half of October

3. INSCTCDE Insecticide applied in early November:

- None

C Cypermethrin

Experimental diary:

30-Jul-93 : B : Deep time cultivated with vibrating times 60 cm apart, 45 cm deep.

13-Aug-93 : B : Ploughed.

17-Aug-93 : B : Rolled.

06-Sep-93 : B : Scythe at 2.0 1 with Vassgro Spreader at 200 ml in 200 1.

17-Sep-93 : T : SOW DATE E: W. wheat, Mercia, dressed Cerevax, drilled at 350 seeds per m². W. barley, Puffin, dressed Cerevax Extra, drilled at 350 seeds per m².

04-Oct-93 : T : SOW DATE M: W. wheat and w. barley drilled as above.

07-Oct-93 : T : SOW DATE E, M: Optimol at 15.0 kg. hand.

15-Oct-93 : T : SOW DATE L: W. wheat and w. barley drilled as above.

12-Nov-93 : T : INSCTCDE C: Ripcord at 250 ml in 220 1.

09-Mar-94 : B : 34.5% N at 118 kg.

19-Apr-94 : B : 34.5% N at 346 kg.

: B : Briotril Plus 19/19 at 2.0 1 with Hytane 500 SC at 2.0 1 in 200 1.

06-May-94 : B : Radar at 0.5 l with Standon Tridemorph 750 at 0.5 l in 200 l.

31-May-94 : B : Mistral at 0.5 1 with Radar at 0.5 1 in 200 1.

94/R/M/1

Experimental diary:

26-Jul-94 : T : CROP WB: Combine harvested. 02-Aug-94 : T : CROP WW: Combine harvested.

Previous crops: W. barley 1992, set-aside 1993.

NOTE: Emergence counts were made in autumn. Level of virus infection was estimated visually and by ELISA in winter, spring and summer.

GRAIN TONNES/HECTARE

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

SOW DATE CROP	E	М	L	Mean		
WW	8.80	8.59	8.10	8.50		
WB	9.32	8.91	8.56	8.93		
Mean	9.06	8.75	8.33	8.72		
INSCTCDE	-	С	Mean			
WW	8.51	8.49	8.50			
WB	8.92	8.94	8.93			
Mean	8.71	8.72	8.72			
INSCTCDE	-	С	Mean			
SOW DATE						
E	9.17	8.96	9.06			
М	8.78	8.72	8.75			
L	8.19	8.47	8.33			
Mean	8.71	8.72	8.72			
SOW DAS	re e		М		L	
CROP INSCTC	DE -	C	_	C	_	C
WW	8.87	8.74	8.59	8.59	8.06	8.14
WB	9.47	9.18	8.97	8.84	8.32	8.80

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

CROP	SOW DATE	INSCTCDE	CROP			
0.160	0.196	0.160	SOW DATE 0.277			
CROP	SOW DATE	CROP				
INSCTCDE	INSCTCDE	SOW DATE				
	INSCTCDE					
0.226	0.277	0.392				

94/R/M/1

GRAIN TONNES/HECTARE

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

Stratum

d.f.

s.e.

CV%

BLOCK.WP

33 0.554 6.4

GRAIN MEAN DM% 86.0

PLOT AREA HARVESTED 0.00230