

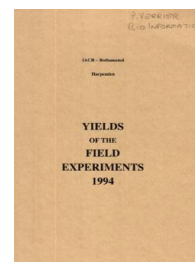
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94/R/M/1 Sowing Date and Insecticide - Mixed Crops

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
WB	W. barley

2. SOW DATE

Date of sowing:

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

3. INSECTICIDE

Insecticide applied in early November:

-	None
C	Cypermethrin

Experimental diary:

30-Jul-93 : B : Deep tine cultivated with vibrating tines 60 cm apart, 45 cm deep.
13-Aug-93 : B : Ploughed.
17-Aug-93 : B : Rolled.
06-Sep-93 : B : Scythe at 2.0 l with Vassgro Spreader at 200 ml in 200 l.
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 : INSECTICIDE C: Ripcord at 250 ml in 220 l.
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 l with Hytane 500 SC at 2.0 l in 200 l.
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 l with Radar at 0.5 l in 200 l.

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

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

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

INSCTCDE	-	C	Mean
SOW DATE			
E	9.17	8.96	9.06
M	8.78	8.72	8.75
L	8.19	8.47	8.33
Mean	8.71	8.72	8.72

	SOW DATE	E		M		L	
CROP	INSCTCDE	-	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	INSCDCDE	CROP
0.160	0.196	0.160	SOW DATE
			0.277
CROP	SOW DATE	CROP	
INSCDCDE	INSCDCDE	SOW DATE	
		INSCDCDE	
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			