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96/R/M/6 Sowing Dates and Inspection - Mixed Crops

Rothamsted Research

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96/R/M/6

MIXED 6

SOWING DATES 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 - Highfield V.

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. Mercia, dressed Sibutol, drilled at 380 seeds per m ²
BW	W. barley. Puffin, dressed Vitaflo Extra, drilled at 350 seeds per m ²

2. SOW DATE

E	Early 20-Sep-95
M	Middle 02-Oct-95
L	Late 16-Oct-95

3. INSECTICIDE

-	None
C	Cypermethrin

Experimental diary:

24-Aug-95 : B : Ploughed and furrow pressed.
20-Sep-95 : T : **SOW DATE** E: Rotary harrowed, wheat and barley drilled.
02-Oct-95 : T : **SOW DATE** M: Rotary harrowed, wheat and barley drilled.
16-Oct-95 : T : **SOW DATE** L: Rotary harrowed twice, wheat and barley drilled.
06-Nov-95 : T : **INSECTICIDE** C: Cyperkill 10 at 250 ml in 200 l.
14-Nov-95 : B : Panther at 2.0 l in 200 l.
07-Mar-96 : B : 34.5% N at 116 kg.
09-Apr-96 : B : 34.5% N at 348 kg.
27-Apr-96 : B : Starane 2 at 1.0 l with Punch C at 0.8 l in 200 l.
10-Jun-96 : B : Punch C at 0.6 l in 320 l.
02-Aug-96 : T : **CROP** BW: Combine harvested.
19-Aug-96 : T : **CROP** WW: Combine harvested.

Previous crops: Set-aside 1994, w. rape 1995.

96/R/M/6

GRAIN TONNES/HECTARE

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

SOW DATE	E	M	L	Mean
CROP				
WW	10.29	10.64	9.86	10.26
BW	8.80	9.54	8.94	9.09
Mean	9.54	10.09	9.40	9.68

INSCTCDE	-	C	Mean
CROP			
WW	10.15	10.38	10.26
BW	9.11	9.08	9.09
Mean	9.63	9.73	9.68

INSCTCDE	-	C	Mean
SOW DATE			
E	9.49	9.59	9.54
M	10.05	10.13	10.09
L	9.34	9.46	9.40
Mean	9.63	9.73	9.68

CROP	INSCTCDE	-	C
WW	SOW DATE		
	E	10.19	10.38
	M	10.56	10.73
	L	9.70	10.03
BW	E	8.79	8.81
	M	9.55	9.54
	L	8.98	8.89

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

CROP	SOW DATE	INSCTCDE	CROP
			SOW DATE
0.113	0.138	0.113	0.195
CROP	SOW DATE	CROP	
INSCTCDE	INSCTCDE	SOW DATE	INSCTCDE
0.159	0.195	0.276	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	33	0.390	4.0
GRAIN MEAN DM%	88.0	PLOT AREA HARVESTED	0.00230