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99/R/CS/311 Effects of Shallow Straw Incorporation - W. Wheat

Rothamsted Research

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99/W/CS/309 FAR FIELD I (W)

GRAIN TONNES/HECTARE

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

SOW DATE	E	L	Mean
STRAWCUL			
BT1 BTTTTTT	7.50	6.86	7.18
BT1T2 CTTTTTT	2.70	3.71	3.21
BP2 BPPPPPP	8.52	6.40	7.46
BT1P2 CPPPPPP	7.32	5.66	6.49
CT1 CTTTTTT	2.41	3.21	2.81
CT1 CPTTPTT	3.14	5.94	4.54
CT1T2 CPTTPTT	6.19	6.15	6.17
CT1T2 CTTPTTP	8.50	5.92	7.21
CP2 CPPPPPP	7.59	6.06	6.82
CP2 CPTTPTT	3.58	6.06	4.82
CT1P2 CPTTPTT	4.65	4.13	4.39
CT1P2 CTTPTTP	7.94	7.16	7.55
Mean	5.84	5.61	5.72

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

STRAWCUL	SOW DATE	STRAWCUL
		SOW DATE
0.683	0.111	0.736
Except when comparing means with the same level(s) of		
STRAWCUL		0.385

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	11	0.683	11.9
BLOCK.WP.SP	12	0.385	6.7

GRAIN MEAN DM% 82.7

SUB-PLOT AREA HARVESTED 0.00690

99/R/CS/311

EFFECTS OF SHALLOW STRAW INCORPORATION

Object: To study the effects on eyespot of incorporating wheat and rape debris using non-inversion tillage - West Barnfield I.

Sponsors: J.F. Jenkyn, R.J. Gutteridge, A.D. Todd.

The 15th year, w. wheat.

For previous years see 85-98/R/CS/311.

Design: 6 x 4 criss-cross.

Whole plot dimensions: 4.5 x 12.0.

Treatments: Combinations of:-

1. **STRAW** (on 'columns') Treatments to straw of previous crop (only wheat in 1999):

BU	Burnt (duplicated)
BA	Baled and removed (duplicated)
CH	Chopped and incorporated (duplicated)

2. **GLYPHOS** (on 'rows') Glyphosate and crop:

-	W. wheat 'as usual'
G	W. wheat after glyphosate in 1998
RAS	S. rape (no yields)
WR	W. wheat given glyphosate in 1999 (no yields)

Experimental diary:

12-Aug-98	: T : BA	: Straw baled and removed
	: T : CH	: Straw chopped and incorporated
19-Aug-98	: T : BU	: Straw burnt and ash incorporated to 10cm.
02-Sep-98	: B :	: Flexitined.
22-Sep-98	: B :	: Flexitined.
	: B :	: Rotary harrowed.
23-Sep-98	: T : -,G,WR	: Hereward, tr. Beret Gold, drilled at 380 seeds/m ² with the Massey Ferguson 30 drill.
24-Sep-98	: T : -,G,WR	: Rolled.
26-Sep-98	: T : -,G,WR	: Hardy at 7.5 kg.
18-Nov-98	: T : RAS	: Roundup at 3.0 l in 200 l.
	: T : -,G,WR	: Avadex BW Granular at 22.5 kg.
01-Dec-98	: T : -,G,WR	: tm)Amazon at 1.0 l in 200 l.
	: T : -,G,WR	: tm)Isogard at 2.0 l in 200 l.
	: T : -,G,WR	: tm)Stefes Cypermethrin 2 at 250 ml in 200
	: T : -,G,WR	: tm)Cropoil at 1.0 l in 200 l.
12-Mar-99	: T : -,G,WR	: 34.5% N at 145 kg.
31-Mar-99	: T : RAS	: tm)PDQ at 3.0 l in 200 l.
	: T : RAS	: tm)Enhance at 100 ml in 200 l.
01-Apr-99	: T : -,G,WR	: tm)Mon 37500 at 25 g in 200 l.
	: T : -,G,WR	: tm)Genamin at 400 ml in 200 l.
07-Apr-99	: T : RAS	: Flexitined.
	: T : RAS	: Combination drilled, Canyon, tr. Rovral Liquid FS and Hydraguard, at 250 seeds/m ² with the Nordsten drill.
	: T : RAS	: Rolled.