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

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92/R/CS/311

EFFECTS OF SHALLOW STRAW INCORPORATION

Object: To study the effects of shallow straw incorporation on pests and diseases and on the establishment, growth and yield of winter wheat - West Barnfield I.

Sponsors: R.D. Prew, D.G. Christian, R.J. Gutteridge, E.T.G. Bacon, J.F. Jenkyn, B.R. Kerry, W. Powell, A.D. Todd.

The eighth year, w. wheat.

For previous years see 85-91/R/CS/311.

Design: Single replicate of 3 x 2 x 2 x 2 x 2.

Whole plot dimensions: 9.0 x 57.0.

Treatments: Combinations of:-

Whole plots

1. **STRAW** Treatments to straw of previous wheat:

BURNT	Burnt
BALED	Baled and removed
CHOPPED	Chopped

2. **CULTTIME** Time of cultivation, to 10 cm depth:

EARLY	As soon as possible after harvest
LATER	At least 14 days after EARLY

Sub plots

3. **FUNGCIDE** Fungicides:

O	None
FULL	Full programme:- Triadimefon and carbendazim in winter, prochloraz in spring plus propiconazole alone and with chlorothalonil in summer

4. **INSECTICIDE** Insecticides:

O	None
CYP+PIR	Cypermethrin in autumn and pirimicarb in summer

5. **MOLLICIDE** Molluscicide:

O	None
METHCARB	Methiocarb after drilling

92/R/CS/311

GRAIN TONNES/HECTARE

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

FUNGCIDE	0	FULL	Mean
CULTTIME			
EARLY	7.53	9.20	8.36
LATER	7.71	9.42	8.57
Mean	7.62	9.31	8.47

INSTCDE	0	CYP+PIR	Mean
STRAW			
BURNT	8.46	8.73	8.60
BALED	8.43	8.38	8.40
CHOPPED	8.39	8.40	8.39
Mean	8.43	8.50	8.47

INSTCDE	0	CYP+PIR	Mean
CULTTIME			
EARLY	8.34	8.38	8.36
LATER	8.52	8.62	8.57
Mean	8.43	8.50	8.47

INSTCDE	0	CYP+PIR	Mean
FUNGCIDE			
0	7.62	7.62	7.62
FULL	9.24	9.38	9.31
Mean	8.43	8.50	8.47

MOLLCIDE	0	METHCARB	Mean
STRAW			
BURNT	8.59	8.61	8.60
BALED	8.39	8.41	8.40
CHOPPED	8.43	8.35	8.39
Mean	8.47	8.46	8.47

MOLLCIDE	0	METHCARB	Mean
CULTTIME			
EARLY	8.37	8.36	8.36
LATER	8.58	8.56	8.57
Mean	8.47	8.46	8.47

MOLLCIDE	0	METHCARB	Mean
FUNGCIDE			
0	7.63	7.61	7.62
FULL	9.31	9.31	9.31
Mean	8.47	8.46	8.47

92/R/CS/311

GRAIN TONNES/HECTARE

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

MOLLCIDE INSCTCDE	O	METHCARB	Mean
O	8.50	8.36	8.43
CYP+PIR	8.45	8.55	8.50
Mean	8.47	8.46	8.47

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

FUNGCIDE	INSCTCDE	MOLLCIDE	STRAW*
0.084	0.084	0.084	FUNGCIDE 0.145
CULTTIME*	STRAW	CULTTIME	FUNGCIDE
FUNGCIDE	INSCTCDE	INSCTCDE	INSCTCDE
0.119	0.145	0.119	0.119
STRAW*	CULTTIME*	FUNGCIDE	INSCTCDE
MOLLCIDE	MOLLCIDE	MOLLCIDE	MOLLCIDE
0.145	0.119	0.119	0.119

* Within the same level of STRAW, CULTTIME or STRAW.CULTTIME only

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

Stratum	d.f.	s.e.	cv%
WP.SP	27	0.291	3.4

GRAIN MEAN DM% 87.0

SUB PLOT AREA HARVESTED 0.00276