

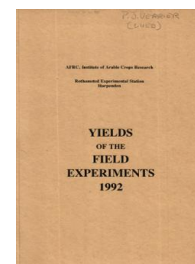
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1992

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1993) *92/R/CS/311 Effects of Shallow Straw Incorporation - W. Wheat* ; Yields Of The Field Experiments 1992, pp 62 - 65 - DOI: <https://doi.org/10.23637/ERADOC-1-47>

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