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Yields of the Field Experiments 1994



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Rothamsted Research

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94/R/CS/311

EFFECTS OF SHALLOW STRAW INCORPORATION

Object: To study the effects of straw incorporation by rotational ploughing, with shallow cultivation in the intervening years, on diseases and yield of winter wheat - West Barnfield I.

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

The tenth year, w. wheat.

For previous years see 85-93/R/CS/311.

Design: 6 x 4 criss-cross split into 2 sub-plots. Originally a single replicate of 3 x 2 x 2 x 2 x 2.

Whole plot dimensions: 4.5 x 12.0.

Treatments: Combinations of:-

Whole plots

1. STRAW Treatments to straw of previous wheat:

BURNT Burnt (duplicated)

BALED Baled and removed (duplicated)

CHOPPED Chopped (duplicated)

Criss-cross with

2. CULTIVIN

SHA CULT Shallow tine cultivated to 10 cm depth (triplicated) PLOUGHED Ploughed to 23 cm depth

Experimental diary:

26-Aug-93 : T : STRAW BALED: Straw baled and removed.

: T : STRAW CHOPPED: Straw chopped with trailed chopper.

27-Aug-93 : T : STRAW BURNT: Straw burnt and ash incorporated with discs.

02-Sep-93 : B : PK as (0:18:36) at 300 kg.

18-Oct-93 : T : CULTIVIN PLOUGHED: Ploughed.

25-Oct-93 : T : CULTIVIN SHA CULT: Heavy spring-tine cultivated

twice.

26-Oct-93 : B : Heavy spring-tine cultivated.

27-Oct-93 : B : Heavy spring-tine cultivated, rotary harrowed, Soissons,

dressed Cerevax, drilled at 380 seeds per m2.

28-Oct-93 : B : Draza at 5.5 kg.

19-Apr-94 : B : Briotril Plus 19/19 at 2.0 1 with Hytan∈ 500 SC at 2.0 1

in 200 1.

23-Jun-94 : B : Cyclone at 1.0 1 with Mallard 750 EC at 0.5 1 in 200 1.

06-Aug-94 : B : Combine harvested.

94/R/CS/311

NOTE: Established plants were counted in January. Numbers of ears of volunteers and grass weeds were counted in July and components of yield were measured. Crop was sampled in July to measure diseases affecting the stem bases and roots.

GRAIN TONNES/HECTARE

**** Tables of means ****

CULTIVIN	SHA CULT	PLOUGHED	Mean
STRAW			
BU	8.94	9.19	9.00
BA	5.16	8.44	5.98
CH	5.33	8.47	6.11
Mean	6.48	8.70	7.03

GRAIN MEAN DM% 86.5

SUB PLOT AREA HARVESTED 0.00276