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# Yields of the Field Experiments 1998



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# 98/R/WW/4 Fusarium Study - W. Wheat

## **Rothamsted Research**

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#### 98/R/WW/4

#### WINTER WHEAT

#### FUSARIUM STUDY

Object: To assess different inocula and inoculum sources on the development of ear blight in mist-irrigated or unirrigated w. wheat - Little Knott.

Sponsors: G.L. Bateman.

Design: 3 randomised blocks of 3 x 2 plots

Whole plot dimensions: 4.0 x 14.0.

#### Treatments:

1.	FUSARIUM	Fusarium inocula:		
	U FS PG	None F. culmorum as spores F. culmorum as colonised grain		
2	MISTING			

None

# M Irrigated

```
Experimental diary:
  17-Sep-97 : B : Scythe LC at 1.5 1 with Vassgro Non Ionic at 100 ml in
                       200 1.
   25-Sep-97 : B : Ploughed.
   27-Sep-97 : B : Rolled.
   06-Oct-97 : B : Rotary harrowed, Charger, dressed Beret Gold drilled at
                       380 seeds per m2.
   26-Nov-97 : B : Lexus Class WSB at 60 g in 200 1
   18-Feb-98 : B : 34.5% N at 120 kg.
   31-Mar-98 : T : FUSARIUM FG: Inoculum applied
   28-Apr-98 : B : 34.5% N at 460 kg.
   09-May-98 : B : Ally at 15 g with Topik at 125 ml and Chiltern Cropoil
                       at 1.0 1 in 200 1.
   18-May-98 : B : Terpal at 1.0 l with Headland Enhance LF at 40 ml in
                       200 1.
   03-Jun-98 : T : FUSARIUM FS: Inoculation and mist irrigation begun.
   13-Jun-98 : T : FUSARIUM FS: Inoculation and mist irrigation completed.
   20-Aug-98 : B : Combine harvested.
```

Previous crops: W. wheat 1996, w. oats 1997

NOTES: (1) Mist irrigation was applied to pairs of plots in sequence between 03-Jun-98 and 13-Jun 98.

(3) Ear blight was assessed in June. Plant samples were taken in July to assess stem base diseases and isolation of fungal pathogens. Seeds were assessed at harvest for fungal infection.

### 98/R/WW/4

### GRAIN TONNES/HECTARE

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

MISTING FUSARIUM	1	М	Mean
U	7.12	6.84	6.98
FS	3.58	3.70	3.64
FG	6.68	6.38	6.53
Mean	5.79	5.64	5.72

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

FUSARIUM	MISTING	FUSARIUM	
		MISTING	
0.231	0.189	0.327	

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

Stratum d.f. s.e. cv% BLOCK.WP 10 0.400 7.0

GRAIN MEAN DM% 86.2

PLOT AREA HARVESTED 0.00138