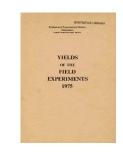
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1975



Full Table of Content

75/ R/B/8 - Effects of Mildew Sources on Disease Control - Barley

Rothamsted Research

Rothamsted Research (1976) 75/ R/B/8 - Effects of Mildew Sources on Disease Control - Barley; Yields Of The Field Experiments 1975, pp 322 - 323 - **DOI:**

https://doi.org/10.23637/ERADOC-1-141

75/R/B/8

SPRING BARLEY

EFFECTS OF MILDEW SOURCES ON DISEASE CONTROL

Object: To study the effects of nearby sources of mildew on control by tridemorph sprays applied at a range of times - Little Hoos.

Sponsors: J.F. Jenkyn, A. Bainbridge.

Design: 3 randomised blocks of 2 plots split into 7.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:.

Whole plots: 1. Mildew source:

MILDSRCE

None (seed treated ethirimol, crop sprayed tridemorph)

Much (no mildew control)

NONE

MUCH

Sub plots: 2. Times of applying tridemorph (single sprays applied at about 5-day intervals at 0.53 kg in 340 1):

TRIDEMOR

1	22 May	1
2	29 May	2
3	4 June	3
4	9 June	4
5	13 June	5
6	16 June	6
7	20 June	7

NOTE: The whole plot treatments were applied to a strip of crop 10 m wide at the ends of all sub plots. There were no discards between sub plots (0.6 m fallow paths only). The sides of sets of seven sub plots were separated by strips of crop 19 m wide, seed treated ethirimol, crop sprayed tridemorph at 0.53 kg in 450 l on 20 June.

Basal applications: Manures: (20:14:14) at 440 kg. Weedkillers: Paraquat at 0.42 kg ion in 220 1, dicamba with mecoprop and MCPA ('Tetralex Plus' at 7.0 1 in 220 1).

Seed: Julia sown at 160 kg.

Cultivations, etc.:- Ploughed: 14 Nov, 1974. Paraquat applied: 27 Feb, 1975. Spring-tine cultivated: 1, 2, and 25 Mar. Seed sown: sub plots and ends of plots 11-17: 14 Apr, sowing completed and all plots spring-tine cultivated: 21 Apr. Weedkiller applied: 6 June. Combine harvested: 22 Aug. Previous crops: Potatoes 1973, winter wheat 1974.

NOTE: Mildew was assessed on one occasion.

75/R/B/8

GRAIN TONNES /HECTARE

*** TABLES OF MEANS ***

TRIDEMOR	1	2	3	4	5	6	7	MEAN
MI LDS RCE NONE MUCH	5.63 5.47	5.33 5.48	5.53 5.35	5.36 5.18	5.29 4.70	5.37 5.11	5.23 4.81	5.39 5.16
MEAN	5.55	5.41	5.44	5.27	5.00	5.24	5.02	5.27

***** STANDARD ERRORS OF DIFFERENCES OF MEANS ****

TABLE

TRIDEMOR

MILDSRCE TRIDEMOR

ONLY WHEN COMPARING MEANS WITH SAME LEVEL(S) OF:

MILDSRCE

0.206

**** STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION ****

STRATUM

DF

CV% SE

BLCCK.WP.SP

24 0.253

4.8

GRAIN MEAN DM% 84.5

SUB PLOT AREA HARVESTED 0.00195