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 1996



Full Table of Content

Winter Barley

Rothamsted Research

Rothamsted Research (1997) *Winter Barley*; Yields Of The Field Experiments 1996, pp 117 - 119 - **DOI:** https://doi.org/10.23637/ERADOC-1-51

96/R/BW/1

WINTER BARLEY

BETA-ACIDS, APHIDS AND BYDV

Object: To investigate the effects of beta-acids from hops on the aphid colonization and BYDV infection on winter barley - Highfield V.

Sponsors: B.J. Pye, J.A. Pickett, R.T. Plumb.

Design: 4 randomised blocks of 4 plots split into 3 sub-plots, systematically arranged.

Whole plot dimensions: 9.0 x 10.0.

Treatments:

APHCONT Aphid control and timing: None

C Cypermethrin in November

Formulated control applied on three occasions in autumn
BA Beta-acids applied on three occasions in autumn

NOTE: Composition of beta-acids application was 10% beta-acids, 10% water, 80% ethanol and of formulation, 20% water, 80% ethanol.

Experimental diary:

24-Aug-95 : B : Ploughed and furrow pressed.

25-Sep-95 : B : Spring-tine cultivated. Rotary harrowed, Gaelic,

dressed Vitaflo Extra, drilled at 350 seeds per m2.

18-Oct-95 : T : APHCONT BA: Beta-acids applied at 10.4 1.

: T : APHCONT F: Formulation applied at 10.4 1.

01-Nov-95 : T : APHCONT BA: Beta-acids applied at 10.4 1.

: T : APHCONT F: Formulation applied at 10.4 1.

14-Nov-95 : B : Panther at 2.0 1 in 200 1.

16-Nov-95 : T : APHCONT BA: Beta-acids applied at 10.4 1.

: T : APHCONT F: Formulation applied at 10.4 1.

: T : APHCONT C: Ambush C at 250 g in 10.4 1.

07-Mar-96 : B : 34.5% N at 116 kg.

09-Apr-96 : B : 34.5% N at 348 kg.

27-Apr-96 : B : Starane 2 at 1.0 1 with Punch C at 0.8 1 in 200 1.

10-Jun-96 : B : Punch C at 0.6 1 in 320 1.

02-Aug-96 : B : Combine harvested.

Previous crops: Set-aside 1994, w. rape 1995.

NOTE: Counts were made of virus infected plants in May and June.

96/R/BW/1

GRAIN TONNES/HECTARE

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

APHCONT

- 10.03 C 9.88 F 9.94 BA 9.67

9.88

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

APHCONT

0.172

Mean

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

Stratum BLOCK.WP	d.f.	s.e.	cv%
	9	0.243	2.5
BLOCK.WP.SP	32	0.288	2.9

GRAIN MEAN DM% 86.8

PLOT AREA HARVESTED 0.00230

96/W/BW/1

WINTER BARLEY

RHYNCHOSPORIUM STUDY

Object: To characterise two geographically separated Rhynchosporium populations and to assess their susceptibility to fungicides - Woburn, Butt Close I - IV. The experiment was repeated at Long Ashton Research Station, Bristol.

Sponsor: D.W. Holloman, Long Ashton Research Station.

Design: 2 randomised blocks of 4 plots.

Whole plot dimensions: 20.0 x 24.0.

Treatments:

FUNGCIDE Fungicide:

None

CARB Carbendazim (Bavistin DF)

CARB+DTB Carbendazim and diethofencarb (Sumico)

DTB Diethofencarb

Experimental diary:

20-Sep-95 : B : Ploughed.

24-Nov-95 : B : Rotary harrowed, Chariot, dressed Wireworm FS Seed

Treatment, drilled at 440 seeds per m2.

19-Mar-96 : B : 34.5% N at 116 kg. 10-May-96 : B : 34.5% N at 290 kg.

02-Jun-96 : B : Ally at 30 g in 200 1.

14-Jun-96 : T : FUNGCIDE CARB: Bavistin DF at 0.5 kg in 300 1.

: T : FUNGCIDE DTB: Diethofencarb at 2.0 kg in 300 1. : T : FUNGCIDE CARB+DTB: Sumico at 2.0 kg in 300 1.

05-Aug-96 : B : Combine harvested.

Previous crops: Various 1994, potatoes 1995.

NOTE: Leaf samples were taken on three occasions and isolates of Rhynchosporium were tested for sensitivity to fungicides.

GRAIN TONNES/HECTARE

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

FUNGCIDE - CARB CARB+DTB DTB Mean 2.12 3.27 3.43 2.74 2.89

GRAIN MEAN DM% 89.8

PLOT AREA HARVESTED 0.00440