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Yields of the Field Experiments 1996



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Rothamsted Research

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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