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92/R/BW/1 Companion Cropping - W. Barley

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92/R/BW/1

WINTER BARLEY

COMPANION CROPPING

Object: To measure the effect of companion cropping on pests and diseases, growth, yield and nutrient uptake of cereals - Highfield IV/Road Piece E.

Sponsor: D.G. Christian.

Design: 3 randomised blocks of 5 plots.

Whole plot dimensions: 6.0 x 10.0.

Treatments:

COMPCROP	Companion crops sown by broadcasting:
NONE	None
WCLOVER	White clover at 20 kg after previous harvest, subsequently ploughed and w. barley drilled
WMUSTL	White mustard at 1.5 kg before drilling w. barley
WMUSTM	White mustard at 3.0 kg before drilling w. barley
OILRADSH	Oil radish at 1.5 kg before drilling w. barley

Experimental diary:

14-Aug-91 : B : PK as (0:16:36) at 1040 kg.
21-Aug-91 : T : **COMPCROP** WCLOVER: Rotary cultivated with Bomford Dynadrive, New Zealand white clover broadcast at 20 kg.
09-Sep-91 : B : Ploughed and furrow pressed.
12-Sep-91 : B : Rolled.
18-Sep-91 : B : Rotary harrowed.
18-Sep-91 : T : **COMPCROP** WMUSTL: White mustard (cv. Tilney) broadcast at 1.5 kg.
 : T : **COMPCROP** WMUSTM: White mustard (cv. Tilney) broadcast at 3.0 kg.
 : T : **COMPCROP** OILRADSH: Oil radish (cv. Trick) broadcast at 1.5 kg.
18-Sep-91 : B : Rotary harrowed, Magie drilled at 140 kg, rolled.
06-Mar-92 : B : 34.5% N at 120 kg.
02-Apr-92 : B : 34.5% N at 340 kg.
19-Apr-92 : B : Duplosan New System CMPP at 2.0 l and Vindex at 1.4 l in 200 l.
03-May-92 : B : Calixin at 0.50 l and Radar at 0.50 l in 260 l.
23-Jul-92 : B : Combine harvested.

Previous crops: W. barley 1990 and 1991.

NOTES: (1) Plant samples were taken in December for growth analysis.
(2) Subsequently in December severe frosts killed all the companion crops.

92/R/BW/1

GRAIN TONNES/HECTARE

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

COMPCROP	
NONE	4.49
WCLOVER	4.69
WMUSTL	4.71
WMUSTM	4.52
OILRADSH	5.27
Mean	4.73

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

COMPCROP
0.874

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	8	1.071	22.6

GRAIN MEAN DM% 84.1

PLOT AREA HARVESTED 0.00230