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97/R/WW/2 Weed Growth and Development - W. Wheat

Rothamsted Research

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97/R/WW/2

WINTER WHEAT

WEED GROWTH AND DEVELOPMENT

Object: To study the growth and seed production of weeds in the presence and absence of a wheat crop with irrigation to avoid water stress - Great Harpenden I.

Sponsors: J.W. Cussans, P.J.W. Lutman.

Design: 4 randomised blocks of 7 plots.

Whole plot dimensions: 6.0 x 10.0.

Treatments:

CRP WEED Crop and/or weed species:

WW	W. wheat
WCH	W. wheat and chickweed (<i>Stellaria media</i>)
WBG	W. wheat and black-grass (<i>Alopecurus myosuroides</i>)
WCL	W. wheat and cleavers (<i>Galium aparine</i>)
CH	Chickweed
BG	Black-grass
CL	Cleavers

Experimental diary:

28-Aug-96 : B : PK as (0:20:32) at 1400 kg.
23-Sep-96 : B : Roundup at 1.5 l with Vassgro Non-ionic at 0.5 l in 200 l.
02-Oct-96 : B : Ploughed and furrow pressed.
08-Oct-96 : T : All plots except WW: Weeds broadcast.
 : B : Harrowed.
08-Oct-96 : T : CRP WEED WW, WCH, WBG, WCL: Rotary harrowed, Mercia, dressed Sibutol, drilled at 380 seeds per m².
16-Dec-96 : T : CRP WEED WW, WBG, BG: Starane 2 at 1.0 l in 220 l.
24-Jan-97 : T : CRP WEED WW, WCH, WCL, CH, CL: Topik 240 EC at 0.25 l in 220 l.
11-Mar-97 : B : 34.5% N at 118 kg.
14-Apr-97 : B : 34.5% N at 463 kg. Clayton Turret at 1.5 l in 200 l.
25-Apr-97 : B : Irrigated 25 mm.
13-May-97 : B : Irrigated 30 mm.
04-Jun-97 : B : Irrigated 25 mm.
16-Jun-97 : B : Folicur at 0.5 l with Mallard 750 EC at 0.3 l and Pointer at 0.5 l in 300 l.
12-Aug-97 : B : Hand harvested.

Previous crops: S. wheat 1995, s. barley 1996.

NOTE: Weed and crop densities were assessed at emergence, in autumn and in spring. Biomass of crop and weeds was assessed on five occasions. Nitrogen content of grain and straw was measured.

97/R/WW/2

GRAIN TONNES/HECTARE

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

CRP WEED

WW	6.76
WCH	6.31
WBG	4.89
WCL	3.26

Mean	5.31
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*** Standard errors of differences of means ***

CRP WEED

0.451

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.638	12.0

GRAIN MEAN DM% 87.8

PLOT AREA HARVESTED 0.00020