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

Rothamsted Research

Rothamsted Research (1999) *98/R/WW/2 Weed Growth and Development - W. Wheat* ; Yields Of The Field Experiments 1998, pp 118 - 119 - DOI: <https://doi.org/10.23637/ERADOC-1-52>

98/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 - Pastures.

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:

11-Sep-97 : B : Harvest at 3.0 l in 300 l.
26-Sep-97 : B : Ploughed. Rolled.
06-Oct-97 : B : Rotary harrowed.
 : T : CRP WEED WBG, BG: Black-grass broadcast.
 : T : CRP WEED WCH, CH: Chickweed broadcast.
 : T : CRP WEED WCL, CL: Cleavers broadcast.
 : T : CRP WEED WW, WCH, WBG, WCL: Rotary harrowed, Consort, dressed Sibutol, drilled at 380 seeds per m².
24-Oct-97 : B : Tiger 90 at 15 kg.
21-Jan-98 : T : CRP WEED WW, WCH, WCL, CH, CL: Cheetah Super at 1.0 l in 220 l.
05-Feb-98 : T : CRP WEED BG, BGW, WW: Starane 2 at 1.0 l in 220 l.
13-Mar-98 : B : 34.5% N at 120 kg.
27-Apr-98 : B : Opus at 0.6 l with Tripart Brevis at 2.25 l in 200 l.
28-Apr-98 : B : 34.5% N at 460 kg.
15-May-98 : B : Bravo 500 at 1.0 l with Opus at 0.5 l in 200 l.
15-Jun-98 : B : Bavistin DF at 0.5 kg with Folicur at 0.5 l in 100 l.
06-Aug-98 : T : CRP WEED BG: Cut and stationary combined.
20-Aug-98 : T : CRP WEED WW, WCH, WBG, WCL: Combine harvested.
28-Aug-98 : T : CRP WEED CL: Combine harvested.

Previous crops: W. wheat 1996, s. beans 1997.

NOTE: Plant samples were taken regularly through the winter and spring to measure leaf and tiller numbers, green area and dry weight. Soil cores were taken in June to assess root distribution.

98/R/WW/2

GRAIN TONNES/HECTARE

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

CRP WEED	
WW	11.77
WCH	9.02
WBG	6.19
WCL	11.45
Mean	9.61

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

CRP WEED	
	0.406

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	9	0.574	6.0
GRAIN MEAN DM%	86.4		
PLOT AREA HARVESTED	0.00230		