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95/R/WW/2 Water Stress and Weed Competition - W. Wheat

Rothamsted Research

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95/R/WW/2

Experimental diary:

20-Jun-95 : T : IRRIGATN I: Irrigated 15 mm.
 21-Jun-95 : T : IRRIGATN I: Irrigated 20 mm.
 29-Jun-95 : T : IRRIGATN I: Irrigated 25 mm.
 06-Jul-95 : T : IRRIGATN I: Irrigated 25 mm.
 13-Jul-95 : T : IRRIGATN I: Irrigated 25 mm.
 20-Jul-95 : T : IRRIGATN I: Irrigated 25 mm.
 05-Aug-95 : B : Roundup at 4.0 l in 200 l.
 14-Aug-95 : B : Hand harvested.

Previous crops: S. rape 1993, w. oats 1994.

NOTE: Weed density was assessed in autumn and spring. Weeds and crop were sampled regularly and dry weight, green area, height and nutrient content were measured. Tillers and leaves were also counted in the crop. Soil was sampled for nitrogen content in February. Flag leaf area and nutrient content were assessed in June. Black-grass seed produced was measured in June. Components of yield were assessed after harvest.

GRAIN TONNES/HECTARE

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

WEED	-	SM	AM	GA	Mean
IRRIGATN					
I	7.18	5.58	2.71	4.08	4.89
0	8.12	6.60	3.49	6.68	6.22
Mean	7.65	6.09	3.10	5.38	5.55

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

IRRIGATN	WEED	IRRIGATN WEED
0.433	0.255	0.534

Except when comparing means with the same level(s) of
 IRRIGATN 0.361

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP.SP	18	0.511	9.2

GRAIN MEAN DM% 91.0

SUB-PLOT AREA HARVESTED 0.00020