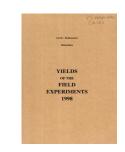
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# Yields of the Field Experiments 1998



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# 98/R/CS/457 Set-aside, Cultivations and Crops - W. Wheat

# **Rothamsted Research**

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#### 98/R/CS/457

#### SET-ASIDE, CULTIVATIONS AND CROPS

Object: To measure the establishment, growth and yield of w. wheat and w. rape following a range of cultivations and herbicide applications after natural regeneration set-aside. To assess soil nitrogen and weeds in the two crops and diseases in the wheat - Scout.

Sponsors: J.F. Jenkyn, R.G. Gutteridge.

The third year, w. wheat.

Design: 3 randomised blocks of 5 x 2 split into 2 sub-plots.

Whole plot dimensions:  $12.0 \times 26.0$ . Sub-plot dimensions:  $10.0 \times 12.0$ .

Treatments: All combinations of:-

1. SETDESTR	Method and time of destruction of set-aside in 1996:
(20)	
(PG)	Ploughed in May, glyphosate pre-drilling
(PC)	Ploughed in May, cultivated in June and July
(MP)	Minimally cultivated in May, ploughed in August
(HP)	Herbicide in May, ploughed in August
(-P)	Ploughed in August
2. CROP	Crop in 1997
(R)	Winter rape

(W) Sub-plots

3. NITROGEN Fertilizer nitrogen in 1997 (kg N):

Winter wheat

(-) None (N) 160

#### Experimental diary:

22-Sep-97 : B : Ploughed.

25-Sep-97 : B : Rotary harrowed, Genesis, dressed Sibutol, drilled at 380 seeds per  $m^2$ .

26-Sep-97 : B : Rolled.

12-Nov-97 : B : Stefes IPU 500 at 2.0 1 with Stomp 400 SC at 2.0 1 and

Cyperkill 10 at 250 ml in 200 1.

17-Feb-98 : B : 34.5% N at 120 kg. 17-Apr-98 : B : 34.5% N at 460 kg.

08-May-98 : B : Ally at 20 g with Pointer at 0.5 1 in 200 1.

28-May-98 : B : Opus at 0.7 l in 200 l.

20-Aug-98 : B : Combine harvested.

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NOTE: Plant samples were taken in July to assess root and stem base diseases.

# GRAIN TONNES/HECTARE

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

CROP		(R)	(W)	Mean	
SETDESTR					
(PG)		9.62	5.19	7.40	
(PC)		9.59	5.75	7.67	
(MP)		7.74	5.52	6.63	
(HP)		9.32	5.36	7.34	
(-P)		8.95	4.94	6.95	
Mean		9.04	5.35	7.20	
					ł
N		( - )	(N)	Mean	
SETDESTR					
(PG)		7.18	7.63	7.40	
(PC)		8.08	7.25	7.67	
(MP)		6.66	6.59	6.63	
(HP)		7.64	7.04	7.34	
(-P)		6.81	7.08	6.95	
Mean		7.27	7.12	7.20	
		2.0	,		
N		(-)	(N)	Mean	
CROP					
(R)		8.95	9.13	9.04	
(W)		5.60	5.10	5.35	
Mean		7.27	7.12	7.20	
nean		7.27	7.12	7.20	
	CROP	(R)		(W)	
SETDESTR	N	(-)	(N)	(-)	(N)
(PG)		9.54	9.69	4.81	5.56
(PC)		9.64	9.54	6.53	4.97
(MP)		7.24	8.24	6.09	4.95
(HP)		9.57	9.06	5.70	5.02
(-P)		8.77	9.14	4.86	5.01

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#### GRAIN TONNES/HECTARE

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

	SETDESTR	CROP	N	SETDESTR
	0.542	0.343	0.186	0.766
	SETDESTR N	CROP N	SETDESTR	
	0.616	0.390	0.872	
Except when SETDESTR	comparing means with 0.415	the same	level(s)	of
CROP SETDESTR.CF	ROP	0.263	0.587	

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

Stratum	d.f.	s.e.	CV%
BLOCK.WP	18	0.939	13.0
BLOCK.WP.SP	20	0.719	10.0

GRAIN MEAN DM% 86.8

SUB-PLOT AREA HARVESTED 0.00230