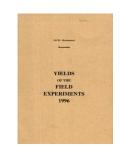
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# Yields of the Field Experiments 1996



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# 96/R/CS/420 Set-aside, Cultivations and Crops - W. Wheat

# **Rothamsted Research**

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#### 96/R/CS/420

## SET-ASIDE, CULTIVATION AND CROPS

Object: To assess the levels of disease and yield of w. wheat after w. wheat and w. rape following a range of cultivations and herbicide applications to destroy natural regeneration set-aside - Meadow.

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R.J. Gutteridge.

The third year, w. wheat.

For previous year see 95/R/CS/420

Design: 4 randomised blocks of 5 x 2 plots split into 2 sub-plots.

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

#### Treatments:

Whole plots

1.	SETDESTR	Method	and	time	of	destruction	of	set-aside	in	1994:

- (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

# Sub-plots

- 2. CROP Crop in 1995:
  - (R) Winter rape (W) Winter wheat
- 3. NITROGEN Fertilizer nitrogen in 1995 (kg N):
  - (-) None (N) 160

#### Experimental diary:

- 13-Sep-95 : B : Ploughed and furrow pressed.
- 30-Sep-95 : B : Rotary harrowed, Genesis, dressed Sibutol, drilled at 380 seeds per  $m^2$ .
- 11-Mar-96 : B : 34.5% N at 116 kg.
- 11-Apr-96 : B : 34.5% N at 463 kg.
- 30-Apr-96 : B : Starane 2 at 1.0 1 with Barclay Holdup at 2.3 1 in 200 1.
- 13-Jun-96 : B : Alto 100 SL at 0.6 1 with Mallard 750 EC at 0.4 1 in 300 1.

# 96/R/CS/420

# Experimental diary:

09-Jul-96 : B : Wild oats pulled by hand.

06-Aug-96 : B : Combine harvested.

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

## GRAIN TONNES/HECTARE

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

CROP	(R)	(W)	Mean
SETDESTR			
(PG)	8.69	8.76	8.72
(PC)	8.71	8.53	8.62
(MP)	8.58	8.30	8.44
(HP)	8.74	8.67	8.70
(-P)	9.04	8.03	8.54
Mean	8.75	8.46	8.60
NITROGEN	(-)	(N)	Mean
SETDESTR			
(PG)	8.92	8.52	8.72
(PC)	8.63	8.61	8.62
(MP)	8.49	8.40	8.44
(HP)	8.98	8.43	8.70
(-P)	8.28	8.80	8.54
Mean	8.66	8.55	8.60
NITROGEN	(-)	(N)	Mean
CROP			
(R)	8.86	8.64	8.75
(W)	8.45	8.46	8.46
Mean	8.66	8.55	8.60
CROP	(R)		(W)
SETDESTR NITROGEN	(-)	(N)	(-) (N)
(PG)	8.66	8.71	9.18 8.33
(PC)	8.77	8.65	8.49 8.57
(MP)	8.79	8.38	8.19 8.41
(HP)	9.02	8.46	8.94 8.40
(-P)	9.08	9.00	7.47 8.59

# 96/R/CS/420

# GRAIN TONNES/HECTARE

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

	SETDESTR	CROP		NITROGEN		SETDESTR
	0.250	0.1	158	0.171		0.354
	SETDESTR NITROGEN	NITRO	COP	SETDESTR CROP NITROGEN		
	0.368	0.2	233	0.521		
Except when SETDESTR	comparing means 0.383	with the	same	level(s)	of	
CROP		0.2	42			
SETDESTR.CF	ROP			0.541		

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

Stratum	d.f.	s.e.	cv*	
BLOCK.WP	27	0.500	5.8	
BLOCK.WP.SP	30	0.765	8.9	

GRAIN MEAN DM% 88.9

SUB-PLOT AREA HARVESTED 0.00230