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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

Rothamsted Research (1997) *96/R/CS/420 Set-aside, Cultivations and Crops - W. Wheat* ; Yields Of The Field Experiments 1996, pp 85 - 87 - DOI: <https://doi.org/10.23637/ERADOC-1-51>

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.

**Sponsors:** E.T.G. Bacon, D.P. Yeoman, M.V. Hewitt, J.F. Jenkyn, 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 x 26.0.

**Sub-plot dimensions:** 10.0 x 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<sup>2</sup>.  
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 l with Barclay Holdup at 2.3 l in 200 l.  
13-Jun-96 : B : Alto 100 SL at 0.6 l with Mallard 750 EC at 0.4 l in 300 l.

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	
<b>SETDESTR</b>				
(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	
<b>NITROGEN</b>	(-)	(N)	Mean	
<b>SETDESTR</b>				
(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	
<b>NITROGEN</b>	(-)	(N)	Mean	
<b>CROP</b>				
(R)	8.86	8.64	8.75	
(W)	8.45	8.46	8.46	
Mean	8.66	8.55	8.60	
<b>SETDESTR</b>	<b>CROP</b>	(R)	(W)	
	<b>NITROGEN</b>	(-)	(N)	(N)
(PG)		8.66	8.71	9.18
(PC)		8.77	8.65	8.49
(MP)		8.79	8.38	8.19
(HP)		9.02	8.46	8.94
(-P)		9.08	9.00	7.47
				8.33
				8.57
				8.41
				8.40
				8.59

96/R/CS/420

GRAIN TONNES/HECTARE

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

	SETDESTR	CROP	NITROGEN	SETDESTR CROP
	0.250	0.158	0.171	0.354
	SETDESTR NITROGEN	CROP NITROGEN	SETDESTR CROP NITROGEN	
	0.368	0.233	0.521	
Except when comparing means with the same level(s) of	SETDESTR			
	0.383			
CROP		0.242		
SETDESTR.CROP			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