

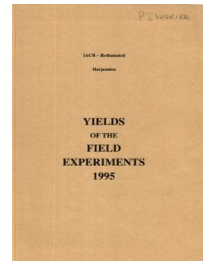
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85/W/M/1 Methods of Cover Crop Establishment - Mixed Crops

Rothamsted Research

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95/W/M/1

MIXED 1

METHODS OF COVER CROP ESTABLISHMENT

Object: To examine the effectiveness of a range of methods of establishing cover crops and to measure the yield of a subsequent crop of linseed - Woburn, Great Hill Bottom I.

Sponsor: D.G. Christian.

Design: 3 randomised blocks of (2 x 4) + 1 plots, split into 2 sub-plots.

Whole plot dimensions: 6.0 x 12.0.

Sub-plot dimensions: 6.0 x 4.5.

Treatments: All combinations of:-

Whole plots

- | | |
|-------------|--|
| 1. COV CROP | Cover crops: |
| BW | Winter barley |
| FR | Forage rape |
| 2. SOWING | Method and timing of sowing: |
| BC | Broadcast into standing crop seven days before harvest |
| DC | Disced, broadcast and rolled, three days after harvest |
| RC | Rotary cultivated, broadcast and rolled three days after harvest |
| DD | Direct drilled two days after harvest |

Sub-plot

- | | |
|------|-----------------|
| 3. N | Nitrogen, kg N: |
| N1 | None |
| N2 | 75 |

plus one extra treatment

Whole plot

- | | |
|----------|----------------------------------|
| 1. EXTRA | |
| ST | Stubble from previous wheat crop |

Sub-plot

- | | |
|------------|-----------------|
| 2. N EXTRA | Nitrogen, kg N: |
| N1 | None |
| N2 | 75 |

95/W/M/1

GRAIN (AT 90% DRY MATTER) TONNES/HECTARE

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

	N	N1	N2	Mean
COV CROP				
BW		0.45	0.63	0.54
FR		0.45	0.62	0.54
Mean		0.45	0.63	0.54
	N	N1	N2	
SOWING	COV CROP			
BC	BW	0.43	0.57	
	FR	0.46	0.53	
DC	BW	0.49	0.65	
	FR	0.46	0.72	
RC	BW	0.41	0.67	
	FR	0.46	0.59	
DD	BW	0.46	0.63	
	FR	0.43	0.65	
N EXTRA		N1	N2	Mean
		0.33	0.76	0.55

Grand mean 0.54

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

	SOWING	COV CROP	N	SOWING
				COV CROP
	0.080	0.057	0.031	0.114
	SOWING	COV CROP	SOWING	
	N	N	COV CROP	
			N	
	0.092	0.065	0.130	
Except when comparing means with the same level(s) of				
SOWING	0.063			
COV CROP		0.044		
SOWING.CO V CROP			0.089	

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

Stratum	d.f.	s.e.	cv%
BLOCK.WP	16	0.139	25.8
BLOCK.WP.SP	18	0.109	20.1

GRAIN MEAN DM% 87.9

SUB-PLOT AREA HARVESTED 0.00099