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# Yields of the Field Experiments 1980



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## 80/R/BE/16 Spring Beans Vicia Cryptic Virus

### **Rothamsted Research**

Rothamsted Research (1981) 80/R/BE/16 Spring Beans Vicia Cryptic Virus; Yields Of The Field Experiments 1980, pp 297 - 298 - DOI: https://doi.org/10.23637/ERADOC-1-31

#### 80/R/BE/16

#### SPRING BEANS

#### VICIA CRYPTIC VIRUS

Object: To study the effects on growth and yield of field beans of the presence of virus-like particles (provisionally named vicia cryptic virus (VCV)) found in the sap of certain plants - Long Hoos III 1.

Sponsors: A.J. Cockbain, R.H. Kenten.

Design: 3 randomised blocks of 12 plots.

Whole plot dimensions: 1.52 x 2.44.

#### Treatments:

LINE	٧	Lir	e i	num	ber	and	VCV	in	fection:
7	٧	Lir	e i	7,	VCV	part	ticle	es	present
14	٧				11		11		
20	٧			0,	**		11		n
39					11		11		11
47		. 1			11		11		11
56					11		**		n
13	100			3,	11		11		absent
15					11		11		11
17					11		11		
38					11		н		II
	0	1		4 1	11		11		n
20 1	0			0 1			н		ш
			_		,				

NOTE: Seed was sown by hand in rows 51 cm apart seed spaced 30 cm apart in the row.

Basal applications: Weedkillers: Trietazine and simazine (as 'Remtal SC' at 3.0 1) in 340 1. Aphicide: Permethrin at 0.15 kg in 340 1. Pirimicarb at 0.14 kg in 340 1.

Seed: Minden.

Cultivations, etc.:- Ploughed: 14 Nov, 1979. Spring-tine cultivated: 7 Apr, 1980. Power harrowed: 9 Apr. Seed sown: 10 Apr. Weedkillers applied: 15 Apr. Permethrin applied: 23 May. Pirimicarb applied: 11 July. Harvested by hand: 3 Oct. Previous crops: Potatoes 1978, s. barley 1979.

NOTE: Plant counts were made at emergence. Pest and disease incidence and growth parameters were assessed throughout the season.

#### 80/R/BE/16

GRAIN TONNES/HECTARE

\*\*\*\*\* TABLES OF MEANS \*\*\*\*\*

LINE	V			
7	٧	1.48		
14	٧	1.84		
20	٧	1.71		
39	٧	1.74		
47	٧	0.80		
56	٧	2.41		
13	0	2.25		
15	0	1.78		
17	0	2.34		
38	0	1.00		
14 1	0	2.19		
20 1	0	0.94		
MEA	AN	1.71		

\*\*\*\* STANDARD ERRORS OF DIFFERENCES OF MEANS \*\*\*\*

TABLE LINE V
SED 0.314

\*\*\*\* STRATUM STANDARD ERRORS AND COEFFICIENTS OF VARIATION \*\*\*\*

STRATUM DF SE CV%

BLOCK.WP 22 0.385 22.6

GRAIN MEAN DM% 89.0

PLOT AREA HARVESTED 0.00037

The Plant of the Court of the C