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80/R/BB/1 Broad Beans *Vicia* Cryptic Virus

Rothamsted Research

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80/R/BB/1

BROAD BEANS

VICIA CRYPTIC VIRUS

Object: To study the effects on growth and dry-grain yield of broad 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: 0.51 x 2.44.

Treatments

LINE V	Line number and VCV infection:
106 V	Line 106, VCV particles present
107 V	" 107, " " "
116 V	" 116, " " "
123 V	" 123, " " "
131 V	" 131, " " "
137 V	" 137, " " "
109 0	" 109, " " absent
111 0	" 111, " " "
114 0	" 114, " " "
117 0	" 117, " " "
118 0	" 118, " " "
124 0	" 124, " " "

NOTE: Seed was sown by hand in rows 51cm apart seed spaced 5cm apart in the row.

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

Seed: Threefold White.

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: 1 Oct. Previous crops: Potatoes 1978, s. barley 1979.

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

80/R/BB/1

GRAIN TONNES/HECTARE

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

LINE V	
106 V	1.05
107 V	2.31
116 V	2.61
123 V	1.87
131 V	2.12
137 V	2.34
109 O	1.76
111 O	2.32
114 O	1.82
117 O	3.35
118 O	2.60
124 O	2.57
MEAN	2.23

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

TABLE	LINE V
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SED	0.420

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

STRATUM	DF	SE	CV%
BLOCK.WP	22	0.515	23.1
GRAIN MEAN DM%	88.8		
PLOT AREA HARVESTED	0.00012		