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# Yields of the Field Experiments 1982

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## 82/R/BE/8 Varieties and Blrv - Spring Beans

### Rothamsted Research

Rothamsted Research (1983) *82/R/BE/8 Varieties and Blrv - Spring Beans* ; Yields Of The Field Experiments 1982, pp 292 - 293 - DOI: <https://doi.org/10.23637/ERADOC-1-33>

82/R/BE/8

SPRING BEANS

VARIETIES AND BLRV

Object: To study the effects of full pest and pathogen control on four varieties differing in susceptibility to bean leaf roll virus (BLRV) - Claycroft.

Sponsor: A.J. Cockbain.

Design: 3 randomised blocks of 8 plots.

Whole plot dimensions: 4.27 x 9.14.

Treatments: All combinations of:-

1. VARIETY           Varieties:  
    BEAD            Maris Bead (field bean, resistant to BLRV)  
    MINDEN          Minden (field bean, sensitive to BLRV)  
    T WHITE         Threefold White (broad bean, sensitive to BLRV)  
    WEIRBOON       Weirboon (broad bean, tolerant to BLRV)
2. PATHCONT        Pest and pathogen control:  
    STANDARD       None  
    FULL            Phorate, pirimicarb and benomyl

NOTE: Rates of materials used in PATHCONT FULL were  
    Phorate at 4.5 kg and rotary harrowed in to the seedbed on  
        25 Mar, 1982  
    Pirimicarb at 0.14 kg in 340 l on 15 June  
    Benomyl at 0.5 kg in 340 l on 2 July

Basal applications: Manures: Chalk at 5.0 t. Weedkillers: Glyphosate at  
    1.4 kg in 250 l. Trietazine at 1.0 kg with simazine at 0.14 kg in  
    250 l.

Cultivations, etc.:- Glyphosate applied: 4 Nov, 1981. Chalk applied:  
    10 Nov. Ploughed: 27 Nov. Spring-tine cultivated: 24 Mar, 1982. Seed  
    sown: 26 Mar. Trietazine with simazine applied: 1 Apr. Combine  
    harvested: 2 Sept. Previous crops: W. wheat 1980 and 1981.

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

82/R/BE/8

GRAIN TONNES/HECTARE

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

VARIETY	BEAD	MINDEN	T WHITE	WEIRBOON	MEAN
PATHCONT					
STANDARD	4.04	3.89	3.77	4.31	4.00
FULL	4.49	4.52	4.27	4.22	4.38
MEAN	4.26	4.20	4.02	4.27	4.19

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

TABLE	VARIETY	PATHCONT	VARIETY PATHCONT
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SED	0.187	0.132	0.264

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

STRATUM	DF	SE	CV%
BLOCK.WP	14	0.323	7.7

GRAIN MEAN DM% 78.8

PLOT AREA HARVESTED 0.00293