Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readible, or you suspect there are some problems, please let us know and we will correct that.



Yields of the Field Experiments 1983



Full Table of Content

83/R/BE/1 Effects of Pests and Pathogens - W. Beans

Rothamsted Research

Rothamsted Research (1984) 83/R/BE/1 Effects of Pests and Pathogens - W. Beans ; Yields Of The Field Experiments 1983, pp 272 - 273 - DOI: https://doi.org/10.23637/ERADOC-1-44

83/R/BE/1

WINTER BEANS

EFFECTS OF PESTS AND PATHOGENS

Object: To assess the effects of three amounts of pest and disease control on w. beans - Stackyard.

Sponsors: J. McEwen, A. Bainbridge, R. Bardner, A.J. Cockbain, J.M. Day, K.E. Fletcher, D.C. Griffiths, D.H. Lapwood, R.M. Webb, T.D. Williams, D.P. Yeoman.

Design: 6 randomised blocks of 3 plots.

Whole plot dimensions: 5.33 x 15.0.

None

Treatments:

PATHCONT Pest and pathogen control (in addition to basals):

STANDARD ENHANCED

CED Seed dressed with benomyl and thiram (1.1 g of each per kg of seed) Phorate at 2.2 kg as granules to foliage on 14 Apr, 1983

FULL

Seed dressed with benomyl and thiram (1.1 g of each per kg of seed) Aldicarb at 10 kg on 23 Sept, 1982 Benomyl at 0.50 kg and fosetyl-Al at 1.76 kg on 7 Mar, 1983 Carbofuran at 2.24 kg on 14 Apr Benomyl at 0.50 kg on 26 Apr Propiconazole at 0.12 kg on 28 June and 11 July

NOTES: (1) Treatment sprays were applied in 340 1.

- (2) Sides of plots were separated by strips of w. beans 5.33 m wide plus 0.66 m fallow paths, ends of plots were separated by strips of w. beans 9.2 m wide plus 0.9 m fallow paths. The separating crops received basal applications as for the plots and in addition received benomyl at 0.50 kg on 7 Mar.
- Basal applications: Weedkillers: Simazine at 1.2 kg in 250 l. Fungicide: Benomyl at 0.56 kg in 250 l on two occasions, the second time with the insecticide. Insecticide: Pirimicarb at 0.14 kg.

Seed: Throws MS, sown at 230 kg.

- Cultivations, etc.:- Ploughed: 26 Aug, 1982. Spring-tine cultivated, rotary harrowed: 23 Sept. Seed sown: 24 Sept. Weedkiller applied: 16 Oct. Basal fungicide applied: 26 May, 1983. Basal fungicide with insecticide applied: 23 June. Combine harvested: 12 Aug. Previous crops: W. wheat 1981 and 1982.
- NOTE: Plant counts were made after establishment and components of yield were measured at maturity. Migratory nematodes, root and foliar fungi, aphids and weevils were counted at intervals during the season. Total above ground dry matter, and N content, were measured in July. N content of grain was measured.

83/R/BE/1

GRAIN TONNES/HECTARE

***** TABLES OF MEAN	S *****
----------------------	---------

PATHCONT	STANDARD 3.62	ENHANCED 3.93	FULL 4.03	MEAN 3.86	
***** STAND	ARD ERRORS	OF DIFFERE	NCES OF MEANS	****	
TABLE	PAT	HCONT			
SED		0.111			
***** STRAT	UM STANDAR	D ERRORS AN	D COEFFICIENT	S OF VARIATIO	ON *****
STRATUM		DF	SE	CV%	
BLOCK. WP		10	0.192	5.0	
GRAIN MEAN	DM% 86.5				
SUB PLOT AR	EA HARVEST	ED 0.00320			