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76/R/CS/110 Fertiliser and Fym - W. Beans

Rothamsted Research

Rothamsted Research (1977) *76/R/CS/110 Fertiliser and Fym - W. Beans* ; Yields Of The Field Experiments 1976, pp 176 - 177 - DOI: <https://doi.org/10.23637/ERADOC-1-15>

76/R/CS/110

FERTILISER AND FYM

Object: To study the residual effects of a range of rates of NPK fertiliser and FYM applied to potatoes, on the yields of subsequent crops - Stackyard.

Sponsor: F.V. Widdowson,

The fourth year, winter beans.

For previous years see 73-75/R/CS/110.

Design: 3 randomised blocks of 18 plots.

Whole plot dimensions: 4.27 x 16.2.

Treatments: All combinations of:-

1. FYM(73) Farmyard manure in 1973 (tonnes) to supply 377 kg N:

0	None
80	80

2. N(73) N and PK fertilisers in 1973 to give rates of nitrogen* (kg N):

188	188
377	377
565	565

3. PK TIME(73) Times of applying PK fertilisers in 1973:

AUTUMN	All in autumn
SPRING	All in spring
AUT/SPNG	Half in autumn, half in spring

* The ratio of N:P₂O₅:K₂O was 1:1.5:1.5 for all N treatments.

Basal applications: Manures: Chalk at 7.5 t. Weedkillers: Simazine at 1.1 kg in 220 l.

Seed: Throws M.S. sown at 220 kg.

Cultivations, etc.:- Deep-tine cultivated twice: 16 Sept, 1975. Chalk applied: 19 Sept. Ploughed: 22 Sept. Heavy spring-tine cultivated: 29 Sept. Seed sown, spring-tine cultivated: 3 Oct. Weedkiller applied: 7 Oct. Harvested: 20 July, 1976.

76/R/CS/110

GRAIN TONNES/HECTARE

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

N(73)	188	377	565	MEAN
FYM(73)				
0	3.22	3.39	3.57	3.39
80	3.59	3.70	3.64	3.64
MEAN	3.41	3.54	3.60	3.52
PK TIME(73)	AUTUMN	SPRING	AUT/SPNG	MEAN
FYM(73)				
0	3.29	3.42	3.47	3.39
80	3.64	3.67	3.62	3.64
MEAN	3.46	3.55	3.54	3.52
PK TIME(73)	AUTUMN	SPRING	AUT/SPNG	MEAN
N(73)				
188	3.41	3.39	3.41	3.41
377	3.47	3.59	3.58	3.54
565	3.51	3.66	3.63	3.60
MEAN	3.46	3.55	3.54	3.52
FYM(73)	PK TIME(73)	AUTUMN	SPRING	AUT/SPNG
	N(73)			
0	188	3.15	3.22	3.29
	377	3.31	3.40	3.45
	565	3.41	3.64	3.65
80	188	3.67	3.57	3.54
	377	3.63	3.77	3.70
	565	3.62	3.68	3.61

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

TABLE	FYM(73)	N(73)	PK TIME(73)	FYM(73)
				N(73)
SED	0.049	0.060	0.060	0.085
TABLE	FYM(73)	N(73)	FYM(73)	
	PK TIME(73)	PK TIME(73)	N(73)	
			PK TIME(73)	
SED	0.085	0.104	0.147	

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

STRATUM	DF	SE	CV%
BLOCK.WP	34	0.180	5.1
GRAIN MEAN DM%	86.6		
PLOT AREA HARVESTED	0.00517		