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Yields of the Field Experiments 1974



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74/R/P/3

POTATOES

SEED SOURCES

Object: To study yields and tuber-borne diseases of potato stocks freed from these diseases by the use of stem cuttings and to compare these with local once-grown and bought-in certified stocks - Pastures.

Sponsors: G.A. Hide, F. Bell.

Design: 4 randomised blocks of 24 plots.

Whole plot dimensions: 1.42 x 9.52. Area harvested: 0.00135.

Treatments: Sources of King Edward seed tubers:

SEEDSRCE

Healthy

Healthy (ex Scotland VTSC), two plots per block
Healthier (once-grown at Rothamsted from exScotland VTSC) two plots per block
Ten different certified stocks
Ten different once-grown stocks

Healthy + Cert/1-Cert/10 OG/1-OG/10

Basal applications: Manures: (13:13:20) at 1510 kg. Weedkillers: Linuron at 1.2 kg plus paraquat at 0.42 kg ion in 450 l. Fungicide: Mancozeb at 1.3 kg in 450 l on two occasions. Insecticide: Demeton-s-methyl at 0.25 kg with mancozeb on the first occasion.

Cultivations, etc.:- Ploughed: 23 Nov, 1973. Spring-time cultivated:
17 Apr, 1974. NPK applied: 24 Apr. Spiked rotary cultivated, potatoes
machine planted: 29 Apr. Weedkiller applied: 21 May. Grubbed: 19 June.
Rotary ridged: 21 June. Fungicide applied: 12 July, 2 Aug. Insecticide
applied: 12 July. Haulm mechanically destroyed: 10 Sept. Sprayed
with undiluted BOV at 220 1: 16 Sept. Lifted: 24 Oct. Previous crops:
Barley 1972, spring beans 1973.

NOTE: Counts were made of plant and stem numbers after burning off and before lifting. Tubers were graded into 6 sizes and assessments made of Oospora, Rhizoctonia, Helminthosporium and Phoma infection.

Standard error per plot.
Total tubers: tonnes/hectare: 3.54 or 6.3% (71 d.f.)

74/R/P/3

TABLES OF MEANS

	TOTAL TUBERS: TONNES/HECTARE	PERCENTAGE WARE 4.44 CM (1.75 INCH) RIDDLE
SEEDSRCE		
Healthy + Cert/1 Cert/2 Cert/3 Cert/4 Cert/5 Cert/6 Cert/7 Cert/8 Cert/9 Cert/10 DG/1 DG/2 DG/3 DG/4 DG/5 DG/6 DG/7 DG/8 DG/9 DG/10	60.3 56.2 61.6 58.2 53.4 56.9 57.4 56.8 57.4 56.8 57.4 56.8 57.4 58.8 58.8 58.8 58.8 58.8 58.8 58.8 58.8	84.8 79.5 80.7 82.5 83.2 81.5 87.3 84.0 85.8 87.2 83.7 85.3 84.8 81.9 82.8 84.8 81.9 82.8
(ean	56.5	83.7
ا Mean Cert/1 - Ce	rt/10 57.3	84.1
Mean OG/1-OG/1	0 55.0	84.0
STANDARD ERROR	S OF DIFFERENCES.	TOTAL TUBERS
		SEEDSRCE
Between any of	lthy + v any of rea	2.50