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70/W/P/3 Potatoes Much Fertiliser and Fym

Rothamsted Research

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POTATOES

(70/W/P/3)

Much fertiliser and FYM - Woburn Stackyard C 1970.

Design: 3 blocks of 10 plots.

Area of each plot: 0.0021. Area harvested: 0.0009.

Treatments: FYM, fertilisers and methods of application:

F2DE, F4DE, F2DES, F4DES, F2S, F4S, D2, D4, D2F2DE, D4F2DE.

D2:D4 = 15:30 tons FYM dug in.

F2:F4 = 2 cwt N, 3 cwt P2O5, 3 cwt K2O: 4 cwt N, 6 cwt P2O5,
6 cwt K2O as 'Nitro-Chalk' 21% N and compound fertiliser
(0:20:20).

DE:S:DES= Fertiliser applied deeply: shallowly: half deeply and half
shallowly.

Basal applications: 5 cwt Epsom salts. Insecticides: Dimethoate at
4.8 fl oz in 40 gals. Menazon at 0.25 lb in 40 gals on two occasions
with fungicide. Fungicide: Captafol ('Sanspor' at 2.5 pts in
40 gals) on two occasions with menazon.

Cultivations, etc.: Ploughed: 11 Nov, 1969. FYM and deeply applied PK
applied and dug in: 3 Apr, 1970. Deep N and Mg applied, rotary
cultivated twice, shallow N, PK applied and raked in, potatoes
planted: 4 May. Ridged up: 19 May. Gaps replanted: 10 June.
Dimethoate applied: 17 June. Menazon and fungicide applied:
6 July, 29 July. Lifted: 29 Sept. Variety: Desiree.
Previous crops: Fallow 1968 and 1969.

NOTES: (1) Soil samples were taken in the spring for pH determinations.
(2) Leaf samples were taken in July for K analysis.
(3) Plant samples were taken at harvest for N, P and K content,
and dry matter determinations.

Standard error per plot.

Total tubers, tons: 0.600 or 2.9% (18 d.f.)

70/W/P/3

SUMMARY OF RESULTS

F2DE	F4DE	F2DES	F4DES	F2S	F4S	D2	D4	D2F2DE	D4F2DE	Mean
TOTAL TUBERS: TONS										
(±0.346)										
20.87	25.19	20.45	25.43	18.56	21.38	11.98	15.31	24.32	26.20	20.97
% WARE: 1.5 INCH										
94.7	96.2	94.6	96.9	96.4	96.2	89.8	93.0	95.9	95.8	95.0