

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 readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Numerical Results of the Field Experiments 1970

[Full Table of Content](#)



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

Rothamsted Research

Rothamsted Research (1971) *70/W/P/3 Potatoes Much Fertiliser and Fym* ; Numerical Results Of The Field Experiments 1970, pp 297 - 298 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

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 |