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# Yields of the Field Experiments 1971

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## 71/W/CS/77 Much Fertiliser and Fym - Potatoes

### Rothamsted Research

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71/W/CS/77

MUCH FERTILISER AND FYM

Object: To study the effects of large dressings of FYM and NPK fertiliser on the yield of potatoes - Woburn Stackyard C.

The first year, potatoes.

Design: 3 blocks of 12 plots.

Whole plot dimensions: 2.74 x 3.05. Area harvested: 0.00073.

Treatments: FYM, fertiliser and methods of application:

F1D, F2D, F4D, F6D, F2S, F4S, D2, D4, D2F2D, D2F4D, D4F2D, D4F4D.  
D2, D4 = 40, 80 tonnes FYM dug in.

F1 = 126 kg N, 188 kg P2O5, 188 kg K2O.

F2 = 252 kg N, 376 kg P2O5, 376 kg K2O.

F4 = 504 kg N, 752 kg P2O5, 752 kg K2O.

F6 = 756 kg N, 1128 kg P2O5, 1128 kg K2O.

D, S = 'Nitro-Chalk' rotary cultivated in, (0:20:20) dug in:  
'Nitro-Chalk' and (0:20:20) raked in shallowly after rotary cultivation.

Basal applications: 627 kg kieserite. Fungicide with insecticide:  
Mancozeb at 1.34 kg plus menazon at 0.28 kg in 450 l on two occasions, captafol at 1.68 kg plus menazon at 0.27 kg in 450 l on two occasions.

Cultivations, etc.: FYM and fertilisers applied to D plots, all plots dug by hand: 16 Mar, 1971. Mg applied, all plots rotary cultivated twice in opposite directions along the plots, fertilisers applied to S plots and raked in, potatoes planted: 15 Apr. Rotary cultivated between rows: 4 May. Mancozeb and menazon applied: 18 June, 7 July. Captafol and menazon applied: 29 July, 17 Aug. Lifted: 23 - 24 Sept. Variety: Desiree. Previous crops: Fallow 1969 and 1970.

NOTES: (1) Leaf samples were taken on 7 July for percentage of Mg and K.  
(2) Tuber samples were taken at grading for percentage of N, P and K.

Standard error per plot.

Total tubers, tonnes/hectare: 2.97 or 7.3% (22 d.f.)

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SUMMARY OF RESULTS

FLD	F2D	F4D	F6D	F2S	F4S	D2	D4	D2F2D	D2F4D	D4F2D	D4F4D	Mean
23.2	36.4	51.8	51.8	40.9	42.7	17.0	28.1	45.6	53.6	44.7	51.8	40.6
TOTAL TUBERS: TONNES/HECTARE												
(±1.71)												
% WARE: 4.44 CM (1.75 INCH) RIDDLE												
49.5	63.1	80.4	77.9	72.4	71.5	28.6	52.5	76.1	82.3	73.5	80.4	67.3