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Yields of the Field Experiments 1972

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72/W/CS/77 Much Fertiliser and Fym - W. Wheat

Rothamsted Research

Rothamsted Research (1973) *72/W/CS/77 Much Fertiliser and Fym - W. Wheat* ; Yields Of The Field Experiments 1972, pp 226 - 228 - DOI: <https://doi.org/10.23637/ERADOC-1-62>

72/W/CS/77

MUCH FERTILISER AND FYM

Object: To study the residual effects of large dressings of FYM and NPK fertiliser applied to potatoes 1971, on the yields of a following winter wheat - Woburn Stackyard C.

Sponsor: F.V. Widdowson.

The second year, winter wheat.

For previous year see 71/W/CS/77(t).

Design: 3 blocks of 12 plots split into 2.

Whole plot dimensions: 2.74 x 3.05. Area harvested: 0.00033.

Treatments: All combinations of:-

Whole plots: 1. Residues of FYM, fertiliser and methods of application to potatoes 1971 (T):

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, 1130 kg P2O5, 1130 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.

Sub plots: 2. Nitrogen to winter wheat 1972: 63 kg, 126 kg N as 'Nitro-Chalk'.

Basal applications: Weedkiller: 2,4-D at 0.42 kg with dichlorprop at 1.7 kg in 340 l.

Variety: Cappelle sown at 200 kg.

Cultivations, etc.: Deep-tine cultivated: 5 Oct, 1971. Seed sown: 28 Oct. N applied: 20 Apr, 1972. Weedkiller applied: 4 May. Harvested by hand: 24 Aug.

Standard errors per plot.

Grain, tonnes/hectare: Whole plot: 0.489 or 11.2% (22 d.f.)

Sub plot: 0.416 or 9.6% (24 d.f.)

72/W/CS/77

TABLE OF MEANS

GRAIN: TONNES/HECTARE

T

	F1D	F2D	F4D	F6D	F2S	F4S	D2	D4	D2F2D	D2F4D	D4F2D	D4F4D	Mean
N: KG/HA													
63	3.50	3.86	3.54	3.90	3.67	4.27	4.26	4.58	4.48	3.93	3.83	4.72	4.05
126	4.62	4.98	4.90	4.15	4.23	4.48	4.63	4.78	4.91	4.27	4.65	5.37	4.66
Mean	4.06	4.42	4.22	4.02	3.95	4.37	4.44	4.68	4.69	4.10	4.24	5.05	4.35

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STANDARD ERRORS OF DIFFERENCES

T	N	T	N
0.399	0.098	0.466	0.340

Unless same levels of T

Mean D.M. ϕ : 82.7

72/W/CS/77

STRAW FRESH: TONNES/HECTARE

T

	F1D	F2D	F4D	F6D	F2S	F4S	D2	D4	D2F2D	D2F4D	D4F2D	F4F4D	Mean
N: KG/HA													
63	7.05	8.45	9.89	7.72	7.58	9.16	9.14	11.39	10.42	8.96	7.72	11.05	9.04
126	7.85	9.39	9.78	7.32	7.39	7.86	8.56	10.47	10.00	8.21	8.17	11.64	8.89
Mean	7.45	8.92	9.83	7.52	7.49	8.51	8.85	10.93	10.21	8.59	7.95	11.35	8.97