Yields of the Field Experiments 1972

72/R/CS/1 Levels of N and K - W. Wheat

Rothamsted Research

72/R/CS/1

LEVELS OF N AND K

Object: To study the residual effects of N, P and K fertilisers
applied to grass 1958 - 1967 and P and K applied to potatoes in
1971, on yields of winter wheat - Harwoods Piece.

Sponsor: F.V. Widdowson.

The fifteenth year, winter wheat.

For previous years see 58/Cg/2(t), 59/Cg/2(t), 60/Ci/1, 61/Dg/1, 62/C/11,
63/C/7, 64/C/6(t), 65/C/6(t), 66/C/5, 67/C/4, 68/C/4(t), 69/R/CS/1(t),
70/R/CS/1(t) and 71/R/CS/1(t).

Whole plot dimensions: 2.13 x 16.5. Sub plot area harvested: 0.00098.

Treatments: No fresh treatments were tested in 1972, only residual
effects.

Basal applications: 100 kg N as 'Nitro-Chalk' in spring. Weedkiller:
Dicamba, mecoprop and MCPA ('Tetralex Plus' at 7 l in 220 l).

Seed: Cappelle, sown at 190 kg.

Cultivations, etc.: Deep-tine cultivated twice: 30 Sept, 1971.
Seed drilled: 5 Oct. Weedkiller applied: 17 Apr, 1972.
N applied: 18 Apr. Combine harvested: 31 Aug.

Standard errors per plot. Grain, tonnes/hectare:
Whole plot: 0.309 or 4.4% (33 d.f.)
Sub plot: 0.360 or 5.1% (36 d.f.)

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TABLES OF MEANS

GRAIN: TONNES/HECTARE

K2O: KG/HA
1969 - 71

	0	125	Mean
Treatment 1958 - 67 (T)			
NPK			
010	6.73	7.30	7.01
110	6.92	6.85	6.88
111	6.82	7.53	7.17
112	7.32	7.52	7.42
210	6.07	7.03	6.55
211	6.80	7.22	7.01
212	7.05	7.11	7.08
310	6.66	7.20	6.93
311	7.01	7.29	7.15
312	7.02	7.40	7.21
302	7.58	7.42	7.50
322	7.07	7.23	7.15
Mean	6.92	7.26	7.09

STANDARD ERRORS OF DIFFERENCES

	T	K2O	T K2O
	0.219	0.074	0.283
Unless same level of T			0.255

Mean D.M. %: 85.0

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