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Numerical Results of the Field Experiments 1970

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70/R/CS/1 Levels of N & K - S. Wheat

Rothamsted Research

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LEVELS OF N & K

(70/R/CS/1)

Residues of N, P and K to grass, Harwoods Piece 1970 - the 13th year, spring wheat.

For treatments, etc. see 'Results' 63/C/7.1, 65/C/6.2 and 69/R/CS/1.1 and for previous years' results see 58/Cg/2, 59/Cg/2, 60/Ci/1, 61/Dg/1, 62/C/11, 63/C/7, 64/C/6, 65/C/6, 66/C/5, 67/C/4, 68/C/4 and 69/R/CS/1.

The 1969 test of K to half plots was repeated.

Basal applications: 0.6 cwt N as 'Nitro-Chalk' broadcast. Weedkiller: Tri-allate at 1.25 lb in 20 gals.

Area of each sub plot: 0.0043. Area harvested: 0.0024.

Cultivations, etc.: Deep-tine cultivated twice: 30 Oct, 1969.
Weedkiller applied: 19 Apr, 1970. K applied, seed drilled at 185 lb, N applied: 23 Apr. Combine harvested: 28 Aug.
Variety: Kolibri.

NOTE: Green crop samples were taken on the 7th July. The percentage of K in the green wheat, and grain, was determined.

Standard errors per plot. Grain, cwt:

Whole plot: 2.13 or 9.3% (33 d.f.)

Sub plot: 1.77 or 7.7% (36 d.f.)

70/R/CS/1

SUMMARY OF RESULTS

GRAIN: CWT

1969 - 70

1958 - 67	KD	KK	Mean
	(1) and (2)		(± 1.06)
N P K			
0 1 0	21.8	25.1	23.5
1 1 0	21.0	25.8	23.4
1 1 1	22.6	25.9	24.3
1 1 2	21.3	22.7	22.0
2 1 0	18.0	23.6	20.8
2 1 1	20.3	25.9	23.1
2 1 2	21.2	26.5	23.9
3 1 0	20.1	24.5	22.3
3 1 1	23.3	27.2	25.2
3 1 2	19.8	23.0	21.4
3 0 2	20.6	24.0	22.3
3 2 2	19.7	25.8	22.7
Mean (± 0.26)	20.8	25.0	22.9

Mean D.M. %: 84.2

- (1) (± 1.23) For use in vertical and diagonal comparisons only
 (2) (± 0.88) For use in horizontal and interaction comparison only