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Numerical Results of the Field Experiments 1968

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68/C/4 Residues of N, P and K to Grass - Spring Wheat

Rothamsted Research

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68/c/4.1

SPRING WHEAT

(AF)

Residues of N,P and K to grass (the 11th year of 'Levels of N and K to grass'), Harwoods Piece 1968.

For treatments etc. see 'Results' 63/C/7.1 and 65/C/6.2 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 and 67/C/4.

Area of each plot: 0.0082. Area harvested: 0.0054.

No treatment or basal P and K were applied in 1968.

Basal applications: 1.0 cwt N as 'Nitro-Chalk' broadcast by drill.
Weedkiller: Ioxynil at 7.5 oz and mecoprop at 22.5 oz in 20 gals.

Cultivations, etc.: Ploughed: 8 Nov, 1967. Seed drilled at 185 lb, 'Nitro-Chalk' applied: 5 Mar, 1968. Weedkiller applied: 15 May. Combine harvested: 27 Aug. Variety: Kloka.

NOTE: Soil samples were taken in October 1967 for pH and available P and K. Crop samples were taken at ear emergence for yield of dry matter and for determination of percentages of N, P and K. Grain and straw samples were taken at harvest for determination of percentages of N, P and K.

Standard error per plot:
Grain: 2.86 or 11.8% (33 d.f.)

68/c/4.2

SUMMARY OF RESULTS

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|------|
| N | 0 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | Mean |
| P | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 2 | |
| K | 0 | 0 | 1 | 2 | 0 | 1 | 2 | 0 | 1 | 2 | 2 | 2 | |

GRAIN

(±1.43)

31.0 20.6 29.8 31.3 15.8 22.9 27.0 16.5 21.9 23.5 25.4 24.2 | 24.2

STRAW

33.3 20.9 33.5 39.9 20.5 27.1 33.6 14.9 21.6 28.8 32.5 32.1 | 28.2

Mean D.M. %: Grain: 82.5
 Straw: 59.8

NOTE: Treatments were applied 1958/67