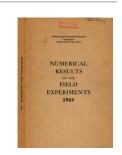
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Numerical Results of the Field Experiments 1969



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Rothamsted Research

Rothamsted Research (1970) 69/R/CS/1 - Levels of N & K - Potatoes; Numerical Results Of The Field Experiments 1969, pp 126 - 128 - **DOI:** https://doi.org/10.23637/ERADOC-1-96

LEVELS OF N AND K

(69/R/CS/1)

- Residues of N,P and K to grass Harwoods Piece 1969 the 12th year, potatoes.
- 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, 67/C/4 and 68/C/4.
- Plots were split for a test of none (KD) v 1.0 (KK) cwt K20 as granular muriate of potash. Otherwise no treatment or basal P and K were applied in 1969.
- Basal applications: 1.0 cwt N as 'Nitro-Chalk' broadcast by hand. Weedkiller: Paraquat at 0.375 lb ion plus linuron at 0.75 lb in 37 gals. Fungicide: Mancozeb at 1.2 lb in 37 gals on three occasions. Insecticide: Demeton-s-methyl at 3.5 oz applied with second mancozeb spray.
- Area of each sub plot: 0.0043. Area harvested: 0.0024.
- Cultivations, etc.: Ploughed: 6 Feb, 1969. Rotary cultivated, basal 'Nitro-Chalk' and muriate of potash applied, potatoes machine planted: 14 Apr. Weedkiller applied: 13 May. Grubbed: 19 June. Earthed up: 26 June. Fungicide applied: 15 July, 4 Aug, 21 Aug. Insecticide applied: 4 Aug. Lifted: 25 Sept. Variety: Pentland Dell.
- NOTE: Leaf samples were taken in July for determination of percentage K. % N, % P and % K in tubers was determined. After harvest soil samples were taken to determine available P and K.
- Standard errors per plot. Total tubers, tons: Whole plot: 1.206 or 10.8% (33 d.f.) Sub plot: 1.790 or 16.1% (36 d.f.)

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SUMMARY OF RESULTS

TOTAL TUBERS: TONS

	KD	KK	Mean
NPK	(1) and (2)		(±0,603)
010 110 111 112 210 211 212 310 311 312 302 322	9.94 8.42 9.62 14.79 5.58 8.49 11.42 4.98 7.21 8.81 9.45 11.06	14.73 12.19 13.97 16.46 12.18 11.70 13.29 11.85 11.35 13.90 13.26 12.93	12.34 10.31 11.80 15.62 8.88 10.09 12.36 8.42 9.28 11.35 11.35 11.99
Mean (±0.258)	9.15	13.15	11.15

 ^(±0.874) For use in vertical and diagonal comparisons only.
(±0.895) For use in horizontal and interaction comparisons only.

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% WARE

	KD	KK	Mean
NPK			32.50
0 1 0 1 1 0 1 1 1 1 1 2 2 1 0 2 1 1 2 1 2 3 1 0 3 1 1 3 1 2 3 0 2 3 2 2	92.3 90.0 95.4 97.0 88.0 92.1 95.8 84.7 93.0 95.2 94.0 96.1	97.2 96.4 97.0 97.8 96.7 96.5 96.7 95.8 96.7 97.2 97.7 96.9	94.8 93.2 96.2 97.4 92.3 94.3 96.3 90.3 94.9 95.8 96.5
Mean	92.8	96.9	94.8