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# Yields of the Field Experiments 1961



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## 61/R/DE/1 Potatoes - Forms and Levels of K

#### **Rothamsted Research**

Rothamsted Research (1962) *61/R/DE/1 Potatoes - Forms and Levels of K*; Yields Of The Field Experiments 1961, pp 126 - 127 **- DOI: https://doi.org/10.23637/ERADOC-1-182** 

61/De/1.1

#### POTATOES

Forms and levels of K - Sawyers I 1961.

Design: 4 blocks of 8 plots each with certain high order interactions partially confounded with block differences.

Area of each plot: 0.0141 acres. Area harvested: 0.0071 acres.

Treatments: No potash (2 plots per block) and all combinations of:
Forms of K: Potassium bi-carbonate, KHCO, (C);

Potassium sulphate, K.SO. (S):

Potassium sulphate, K<sub>2</sub>SO<sub>4</sub> (S); Potassium chloride, KCl (M);

Levels of K: 1.25; 2.50 cwt K<sub>2</sub>0 per acre.

All the above in combination with:
Levels of N: 0.75; 1.50 cwt N per acre as 'Nitro-Chalk'.

Basal dressing: 0.75 cwt P205 per acre as triple superphosphate.

Cultivations, etc.: Ploughed: Jan 5, 1961. Ridged: Apr 24.

Fertilisers applied, potatoes hand planted: Apr 25. Earthed up:
July 6. Lifted: Sept 22. Variety: King Edward. Previous
crop: Fallow.

Standard errors per plot.

Total tubers tons per acre: 1.203 tons per acre or 25.7% (13 d.f.)

Note: This is a repetition with the same treatments on the same plots of the experiment of 1959 (see 59/Cf/1).

61/De/1.2

#### Summary of Results

Form of K

	0	O	S	М	Mean
Total tubers: tons per acre					
Mean (±0.425)	3.88	4.88	5.13	4.83	4.68
K <sub>2</sub> 0: cwt per acre 1.25 (±0.602) 2.50	-	5.07 4.69	4.89 5.38	4.77 4.89	4.91 (±0.347)
Diff. (±0.851)	-	-0.38	+0.49	+0.12	+0.08 (±0.491)
N: cwt per acre 0.75 (±0.602) 1.50	3.92 3.83	4.27 5.49	5.09 5.18	4.21 5.45	4.37 4.99
Diff. (±0.851)	-0.09	+1.22	+0.09	+1.24	+0.62 (±0.425)
Percentage ware (12" riddle)					
Mean	65.1	71.2	71.5	68.0	68.9
K <sub>2</sub> 0: cwt per acre 1.25 2.50 Diff.	1 1 1	72.4 70.1 -2.3	72.3 70.7 -1.6	64.7 71.4 +6.7	69.8 70.7 +0.9
N: cwt per acre 0.75 1.50	65.0 65.2	70.8 71.7	69•3 73•6	65•4 70•7	67.6 70.3
Diff.	+0.2	+0.9	+4.3	+5.3	+2.7

### Forms of K

<sup>0 =</sup> None C = Potassium bi-carbonate, KHCO S = Potassium sulphate, K2SO<sub>4</sub> M = Potassium chloride, KC1