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Yields of the Field Experiments 1965

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65/W/WK/E/DF/1 Kale - Urea

Rothamsted Research

Rothamsted Research (1966) *65/W/WK/E/DF/1 Kale - Urea* ; Yields Of The Field Experiments 1965, pp 281 - 282 - DOI: <https://doi.org/10.23637/ERADOC-1-159>

65/Df/1.1

KALE

(WK/E)

Urea concentrations in NPK fertilisers - Woburn Butt Close 1965.

Design: 3 randomised blocks of 18 plots.

Area of each plot: 0.0019. Area harvested: 0.0011.

Treatments: None (O) (2 plots per block) and all combinations of:-

1. Compound fertilisers (all in the proportion N: P₂O₅: K₂O of 2:1:1):-

Compounds with P as triple superphosphate:-

- N 100% urea (P)
- N 66% urea and 33% ammonium nitrate (Q)
- N 33% urea and 66% ammonium nitrate (R)
- N 100% ammonium nitrate (S)

Compounds with P and part N as monourea phosphate, remaining N as follows:-

- 100% urea (T)
- 66% urea and 33% ammonium nitrate (U)
- 33% urea and 66% ammonium nitrate (V)
- 100% ammonium nitrate (W)

K as muriate of potash in all compounds.

2. Levels: To supply 1.25 (L1), 2.50 (L2) cwt N.

Basal applications: Manures: None. Insecticide: Menazon and BHC (Abol X at 10 fluid oz in 40 gals).

Cultivations, etc.: Ploughed: Nov 24, 1964. Rotary cultivated 4 times (to kill twitch), fertilisers broadcast, seed drilled at 10 lb: May 6, 1965. Sprayed: July 8. Harvested: Oct 15. Variety: Thousand Head. ✓ Previous crops: Winter wheat 1963, carrots 1964.

NCPE: Soil samples were taken for determination of mineralisable N.

Crop samples were taken for germination count, yield and N percentage. ✓ Samples were taken at harvest for yield and N percentage. ✓

Standard error per plot.

Fresh weight: 1.809 or 8.2% (34 d.f.)

65/Dr/1.2

SUMMARY OF RESULTS

FRESH WEIGHT

| | O | P | Q | R | S | T | U | V | W | Mean |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------|
| | | | | | | | | | | (±0.369) |
| I1 | | 20.66 | 21.34 | 20.05 | 21.20 | 21.54 | 19.78 | 21.81 | 20.86 | 20.90 |
| I2 | | 25.19 | 25.52 | 27.21 | 26.20 | 25.79 | 25.52 | 26.00 | 26.33 | 25.97 |
| Mean (±0.738) | 10.40 | 22.92 | 23.43 | 23.63 | 23.70 | 23.67 | 22.65 | 23.90 | 23.60 | 21.99* |

(±1.044)

* General mean.