

Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1965

[Full Table of Content](#)



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.

NOTE: 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/Df/1.2

SUMMARY OF RESULTS

FRESH WEIGHT

	O	P	Q	R	S	T	U	V	W	Mean
						(±1.044)				(±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*

* General mean.