

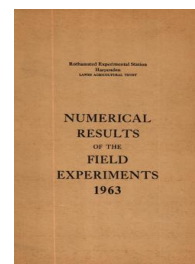
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Yields of the Field Experiments 1963

[Full Table of Content](#)



63/R/CF/B/7 Concentrated Fertilisers Rotation

Rothamsted Research

Rothamsted Research (1964) *63/R/CF/B/7 Concentrated Fertilisers Rotation ; Yields Of The Field Experiments 1963*, pp 107 - 108 - DOI: <https://doi.org/10.23637/ERADOC-1-183>

63/B/7.1

CONCENTRATED FERTILISERS ROTATION

(CF)

Concentrated compound fertiliser and forms of N - West Barnfield I
1963, the fourth year - Barley.

Rotation: 1960 - 1962: kale, ryegrass, barley in all phases.
1963: All blocks sown to barley.

Design (each phase): 2 randomised blocks of 14 plots each.

Area of each plot: 0.0174 acres. Area harvested: 0.0105 acres.

Treatments. 1960 - 1962 (per acre): No fertiliser (O)
P2O5 and K2O each at 0.3 cwt to barley and each at 1.0 cwt to
kale and ryegrass, as triple superphosphate and potassium
bicarbonate (B)
Compound fertiliser, 20% N, 10% P2O5, 10% K2O at 0.3(1),
0.6(2) cwt N to barley and 1.0(1), 2.0(2) cwt N to kale and
ryegrass (F)
Sulphate of ammonia, granular superphosphate and muriate of
potash at rates equivalent to treatments F(1) and (2) (P)
PK as treatment B plus
Sulphate of ammonia (S)
Calcium nitrate (C)
Urea (U)
Ammonium nitrate (A)
each at rates 1 and 2 of N.

Basal dressing to barley 1963: 0.6 cwt N per acre as 'Nitro-Chalk'
combine drilled.

Cultivations, etc.: Ploughed (after barley): Sept 13, 1962. Ploughed
(after kale and ryegrass): Mar 20, 1963. Seed drilled at 2 bushels
per acre: Apr 19. Undersown with grass and clover: May 8.
Combine harvested: Sept 14. Variety: Proctor.

Note: For details of the previous years' results see 'Results of the
Field Experiments' 60/B/8, 61/B/7 and 62/B/7.

Standard error per plot.

Grain (at 85% dry matter): 2.21 cwt per acre or 5.9% (39 d.f.)

63/B/7.2

Summary of ResultsGrain (at 85% dry matter): cwt per acre

1960 1961 1962	Previous crop			Mean
	Kale Ryegrass Barley	Ryegrass Barley Kale	Barley Kale Ryegrass	
<u>Fertiliser</u>	(±1.57)*			(±0.90)
O	37.2	39.6	27.3	34.7
B	39.4	38.3	27.7	35.1
F1	38.5	39.9	30.7	36.4
F2	40.8	37.3	36.3	38.2
P1	41.5	40.2	29.8	37.2
P2	38.7	39.1	36.3	38.0
S1	44.1	37.8	29.7	37.2
S2	39.0	36.4	34.9	36.8
C1	43.2	38.0	30.7	37.3
C2	41.4	41.2	36.1	39.6
U1	43.8	41.0	30.2	38.3
U2	41.1	40.7	34.1	38.6
A1	41.3	38.9	28.7	36.3
A2	39.5	42.5	36.8	39.6
Mean	40.7	39.4	32.1	37.4

*For use in vertical and interaction comparisons only.

Mean dry matter % as harvested: 82.1

For explanation of treatment symbols see page 63/B/7.1