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# Yields of the Field Experiments 1966

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## 66/W/WIC/B/9 Intensive Cereals

### Rothamsted Research

Rothamsted Research (1967) *66/W/WIC/B/9 Intensive Cereals* ; Yields Of The Field Experiments 1966, pp 117 - 119 - DOI: <https://doi.org/10.23637/ERADOC-1-158>

66/B/9.3

SUMMARY OF RESULTS

WHEAT GRAIN

N1	N2	N3	N4	Mean
36.2	42.8 (±0.79)	39.9	38.0	39.2

BARLEY GRAIN

38.1	48.4 (±0.76)	51.4	49.0	46.7
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POTATOES

	Permanent wheat block	Permanent barley block
Total tubers	7.65	13.45
% ware	89.5	94.6

CLOVER RYEGRASS LEY

	Permanent wheat block		Permanent barley block	
	Mean	Mean D.M. %	Mean	Mean D.M. %
1st cut	16.8	38.5	21.9	32.0
2nd cut	22.6	16.8	25.2	17.8
Total of 2 cuts	39.4	27.6	47.2	24.9

STATE OF CALIFORNIA  
DEPARTMENT OF REVENUE  
STATE TAX

Year	1971	1972	1973	1974	1975
State Tax	10.0	10.0	10.0	10.0	10.0
Local Tax	10.0	10.0	10.0	10.0	10.0
Total Tax	20.0	20.0	20.0	20.0	20.0

  

Year	1971	1972	1973	1974	1975
State Tax	10.0	10.0	10.0	10.0	10.0
Local Tax	10.0	10.0	10.0	10.0	10.0
Total Tax	20.0	20.0	20.0	20.0	20.0

66/c/1.1

LEVELS OF K AND Mg

(LM)

K and Mg - Rothamsted Sawyers I - the 8th year, kale.

Design: 3 x 3 x 3 arrangement in 6 blocks of 9 plots, with 3 blocks (1 replicate) at each of 2 levels of Ca.

In addition a 3 x 3 arrangement in 2 blocks of 9 (1 at each level of Ca).

Area of each plot: 0.0212. Area harvested: 0.0045.

Treatments:

Blocks receiving sodium treatments. All combinations of:-

1. (To blocks). Magnesium free calcium carbonate in 1959 and 1962 as follows:  
1959 10, 40 cwt (Ca1, Ca2)  
1962 38, 76 cwt (Ca1, Ca2)
  2. Mg applied each year: None (Mg0), 29 (Mg1), 58 (Mg2) lb Mg applied as magnesium sulphate.
  3. K applied each year: (In lb K, as sulphate of potash).  
None (K0), 68 (K1), 136 (K2).
  4. Na (1966 only): None (Na0), 130 lb. Na as sodium chloride (Cl), 130 lb as sodium carbonate (C).
- Blocks not receiving sodium treatment. All combinations of (1), (2), (3) as above.

Basal applications: 0.5 cwt P<sub>2</sub>O<sub>5</sub> as triple superphosphate in seedbed, 1.0 cwt N as 'Nitro-Chalk' in seedbed, 1.0 cwt N as 'Nitro-Chalk' top-dressed.

Cultivations, etc.:

Ploughed: Oct 19, 1965. Basal P applied: Mar 18, 1966. Fertilisers applied: Apr 26. 'Nitro-Chalk' applied, seed drilled at 1.5 lb: Apr 28. 'Nitro-Chalk' top-dressed: June 23. Harvested: Dec 5. Variety: Thousand Head.

- NOTES: (1) The percentages of Na, Mg and K in the crop were determined.  
(2) For previous years' results see 'Results' 60/Ci/3, 61/C/7, 62/C/6, 63/C/1, 64/C/1, 65/C/1.

Standard errors per plot (pooled). Kale fresh weight:  
1.703 or 6.8% (34 d.f.)