

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

## Numerical Results of the Field Experiments 1968

[Full Table of Content](#)

ROTHAMSTED DOCUMENTS SECTION  
AGRICULTURAL RESEARCH  
COUNCIL  
ROTHAMSTED  
Herts  
UK  
The Rothamsted Experiment Station is situated on the Rothamsted Estate, Hemel Hempstead, Herts, UK. It is one of the largest and oldest agricultural research stations in the world. It is a member of the International Network of Agricultural Experiment Stations (INAES) and is affiliated with the International Centre for Soil and Water Conservation (ICSWC) and the International Centre for Soil and Water Conservation (ICSWC).

### 68/DD/2 Row Spacing, N, K and Seed Rate S. Oilseed Rape

#### Rothamsted Research

Rothamsted Research (1970) *68/DD/2 Row Spacing, N, K and Seed Rate S. Oilseed Rape* ; Numerical Results Of The Field Experiments 1968, pp 333 - 336 - **DOI:**

<https://doi.org/10.23637/ERADOC-1-58>

68/Da/2.1

SPRING OILSEED RAPE

(RRa 201)

Row spacing, N, K and seed rate - Long Hoos V 1968.

Design: A single replicate of 2 x 3 x 3 x 3 in 3 blocks of 18 plots.

Area of each plot: 0.0193. Area harvested: 0.0138.

Treatments: All combinations of:-

1. Seed rate: 5 lb (S), 10 lb (D).
2. Row spacing: 4 (C), 8 (M), 16 (W) inches.
3. K (in addition to basal): None (K1), 0.5 (K2), 1.0 (K3) cwt K2O as muriate of potash.
4. N: 1.0 (N5), 1.4 (N7), 1.8 (N9) cwt N as 'Nitro-Chalk'.

Basal applications: 280 lb (0:20:20) broadcast, 4 tons ground chalk. Weedkiller: Paraquat at 0.5 lb ion in 32 gals. Insecticide: Malathion at 18 oz in 38 gals.

Cultivations, etc.: Ploughed: 6 Sept, 1967. Weedkiller applied: 4 Dec. Chalked: 20 Feb, 1968. Basal PK applied: 29 Feb. Muriate of potash applied, seed drilled: 12 Mar. 'Nitro-Chalk' applied: 22 Mar. Insecticide applied: 11 June. Combine harvested: 27 Aug. Variety: Nilla. Previous crops: Fallow 1966, winter and spring wheat 1967.

Standard errors per plot.

Grain (at 90% dry matter): 2.27 or 13.1% (8 d.f.)  
Yield of fixed oil, lb per acre: 88.8 or 12.7% (7 d.f.)

68/Da/2.2

SUMMARY OF RESULTS

GRAIN

	C	M	W	K1	K2	K3	N5	N7	N9	Mean
	(±0.76)			(±0.76)			(±0.76)			(±0.44)
S	17.6	16.7	17.6	17.1	17.1	17.6	16.8	18.2	16.9	17.3
D	17.7	18.4	16.3	18.2	18.0	16.3	17.6	17.5	17.3	17.5
				(±0.93)			(±0.93)			(±0.54)
		C		17.6	17.7	17.6	16.9	17.8	18.2	17.6
		M		17.8	17.5	17.2	17.5	17.9	17.1	17.5
		W		17.5	17.4	16.0	17.1	17.8	16.0	17.0
							(±0.93)			(±0.54)
					K1		17.8	18.2	16.9	17.7
					K2		17.3	18.0	17.3	17.5
					K3		16.4	17.3	17.1	16.9
Mean (±0.54)							17.2	17.8	17.1	17.4

Mean D.M. %: 79.6

68/Da/2.3

		% FIXED OIL								
	C	M	W	K1	K2	K3	N5	N7	N9	Mean
S	36.4	36.2	36.1	35.5	36.5	36.8	36.8	37.0	35.0	36.2
D	36.3	36.9	35.9	36.3	36.4	36.4	37.0	36.7	35.5	36.4
		C		36.0	36.6	36.6	37.2	36.7	35.3	36.4
		M		36.1	36.7	36.8	37.7	37.1	34.9	36.6
		W		35.6	36.1	36.3	35.8	36.7	35.6	36.0
					K1		36.6	36.2	34.9	35.9
					K2		37.2	36.9	35.3	36.5
					K3		37.0	37.3	35.5	36.6
Mean						36.9	36.8	35.2	36.3	

68/Da/2.4

YIELD OF FIXED OIL

	C	M	W	K1	K2	K3	N5	N7	N9	Mean
	(±29.6)			(±29.6)			(±29.6)			(±17.1)
S	704	665	702	673	688	711	679	739	653	690
D	707	746	677	726	719	686	749	706	676	710
				(±36.3)			(±36.3)			(±20.9)
		C		701	708	708	696	716	706	706
		M		709	707	700	726	732	658	705
		W		688	695	686	721	719	629	690
							(±36.3)			(±20.9)
					K1		719	728	651	699
					K2		707	729	673	703
					K3		716	710	669	698
Mean (±20.9)							714	722	664	700