

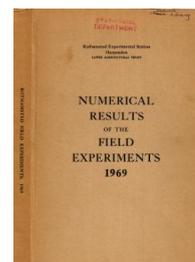
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED  
RESEARCH

## Numerical Results of the Field Experiments 1969

[Full Table of Content](#)



### 69/R/RA/2 - Seed Rates, Row Spacing, N & Ccc - Spring Oilseed Rape

#### Rothamsted Research

Rothamsted Research (1970) *69/R/RA/2 - Seed Rates, Row Spacing, N & Ccc - Spring Oilseed Rape ; Numerical Results Of The Field Experiments 1969*, pp 289 - 292 - DOI:

<https://doi.org/10.23637/ERADOC-1-96>

SPRING OILSEED RAPE

(69/R/RA/2)

Seed rates, row spacing, N and chlormequat, Fosters West Side 1969.

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 (L), 10 lb (H).
2. Row spacing: 4 (C), 8 (M), 16 (W) inches.
3. Nitrogen: 1.0 (N5), 1.4 (N7), 1.8 (N9) cwt N as 'Nitro-Chalk'.
4. Chlormequat\*: None (C0), 1 (C1), 2 (C2) lb chlormequat in 40 gals.

\* 2-chloroethyltrimethylammonium chloride (CCC).

Basal applications: 2.5 cwt (0:20:20). Insecticide: Malathion at 18 oz in 37 gals.

Cultivations, etc.: Rotary cultivated twice: 20 Aug and 22 Oct, 1968. Ploughed: 29 Oct. Basal PK applied: 12 Apr, 1969. 'Nitro-Chalk' applied: 15 Apr. Seed drilled: 16 Apr. W treatments hoed with 'Colwood' hoe: 23 Apr. Chlormequat applied: 11 June. Insecticide applied: 18 June. Combine harvested: 27 Aug. Variety: Nilla. Previous crops: Spring wheat 1967, barley 1968.

Standard errors per plot.

Grain (at 90% dry matter), cwt: 2.31 or 13.9% (25 d.f.)  
Yield of fixed oil, lb: 97.4 or 14.2% (25 d.f.)

NOTE: Owing to a combine blockage grain was carried over on to plot 52 (H M N5 C1). An estimated value was used in the analysis.

SUMMARY OF RESULTS

GRAIN: CWT

	C	M	W	N5	N7	N9	C0	C1	C2	Mean
	(±0.77)			(±0.77)			(±0.77)			(±0.44)
L	17.6	16.3	16.3	17.7	17.4	15.1	16.1	15.9	18.3	16.7
H	18.2	14.8	16.5	17.7	16.9	14.9	16.0	16.7	16.7	16.5
				(±0.94)			(±0.94)			(±0.54)
			C	18.6	18.0	17.1	17.1	17.2	19.3	17.9
			M	16.6	17.5	12.5	16.1	14.6	15.8	15.5
			W	17.9	16.0	15.3	14.8	17.0	17.3	16.4
							(±0.94)			(±0.54)
						N5	17.0	17.5	18.5	17.7
						N7	15.8	17.7	18.0	17.2
						N9	15.3	13.7	15.9	15.0
Mean (±0.54)							16.0	16.3	17.5	16.6

Mean D.M. %: 73.8

% FIXED OIL

	C	M	W	N5	N7	N9	C0	C1	C2	Mean
L	39.0	38.9	38.4	39.5	38.7	38.2	38.9	38.7	38.7	38.8
H	39.3	38.8	38.4	39.8	38.9	37.7	38.7	38.8	39.0	38.8
			C	40.2	39.4	37.9	39.1	39.1	39.3	39.2
			M	39.6	38.9	38.0	39.0	38.8	38.7	38.8
			W	39.3	38.2	37.9	38.3	38.5	38.6	38.4
						N5	39.6	39.6	39.8	39.7
						N7	38.9	38.8	38.8	38.8
						N9	37.9	38.0	38.0	37.9
Mean							38.8	38.8	38.9	38.8

YIELD OF FIXED OIL: LB

	C	M	W	N5	N7	N9	CO	C1	C2	Mean
	(±32.5)			(±32.5)			(±32.5)			(±18.7)
L	734	675	670	745	721	613	667	657	755	693
H	761	612	674	749	701	598	659	691	697	682
				(±39.8)			(±39.8)			(±23.0)
			C	796	758	689	713	719	811	748
			M	698	724	509	670	606	655	644
			W	747	650	618	607	697	711	672
							(±39.8)			(±23.0)
						N5	719	735	786	747
						N7	654	733	745	711
						N9	617	553	647	605
Mean (±23.0)							663	674	726	688