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Numerical Results of the Field Experiments 1969

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

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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	C0	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