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Numerical Results of the Field Experiments 1968

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

Rothamsted Research

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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/Dd/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