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Numerical Results of the Field Experiments 1968

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68/DD/1 Row Spacing, N and K - W. Oilseed Rape

Rothamsted Research

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68/Dd/1.1

WINTER OILSEED RAPE

(RRa 101)

Row spacing, N and K - Delafield 1968.

Design: A single replicate of 3 x 3 x 3 x 3 in 9 blocks of 9 plots.

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

Treatments: All combinations of:-

1. Row spacing: 4 (C), 8 (M), 16 (W) inches.
2. Levels of K: 0.5 (K1), 1.0 (K2), 1.5 (K3) cwt K₂O as muriate of potash (including basal).
3. Levels of N: 1.0 (N2), 1.5 (N3), 2.0 (N4) cwt N as 'Nitro-Chalk' (in addition to basal).
4. Time of applying N: Early (E), late (L), split dressing, half applied early and half late (EL).

Basal applications: 350 lb (8:20:16) in seedbed.

Cultivations, etc.: Ploughed: 14 Sept, 1967. Basal NPK and test K applied: 23 Sept. Seed drilled at 8 lb: 25 Sept. 'Nitro-Chalk' applied (E and EL treatments): 20 Feb, 1968. 'Nitro-Chalk' applied (EL and L treatments): 4 Apr. Combine harvested: 19 Aug. Variety: Victor. Previous crops: Barley 1966 and 1967.

Standard errors per plot:

Grain (at 90% dry matter):	2.89 or 17.7% (13 d.f.)
Yield of fixed oil, lb per acre:	139.23 or 18.2% (13 d.f.)

68/Dd/1.2

SUMMARY OF RESULTS

GRAIN

	K1	K2	K3	N2	N3	N4	E	L	EL	Mean
	(±0.96)			(±0.96)			(±0.96)			(±0.56)
C	15.3	18.1	16.2	15.6	16.6	17.4	16.3	18.6	14.6	16.5
M	16.4	16.3	16.0	14.0	16.0	18.7	16.2	15.9	16.6	16.2
W	14.6	15.5	18.5	14.1	14.8	19.8	17.5	15.9	15.2	16.2
				(±0.96)			(±0.96)			(±0.56)
	K1			13.5	16.1	16.7	15.4	15.7	15.2	15.4
	K2			15.3	15.5	19.1	17.0	17.4	15.5	16.6
	K3			14.8	15.7	20.1	17.6	17.4	15.8	16.9
							(±0.96)			(±0.56)
				N2			14.2	15.5	13.9	14.5
				N3			16.1	15.7	15.6	15.8
				N4			19.6	19.3	17.0	18.6
Mean (±0.56)							16.7	16.8	15.5	16.3

Mean D.M. %: 80.6

68/Da/1.3

% FIXED OIL										
	K1	K2	K3	N2	N3	N4	E	L	EL	Mean
C	43.7	43.3	43.2	43.8	43.2	43.3	43.3	43.3	43.5	43.4
M	43.2	43.4	43.6	44.1	43.2	42.9	43.6	43.1	43.5	43.4
W	43.3	43.1	43.5	44.0	43.3	42.6	43.3	43.1	43.5	43.3
		K1		44.0	43.3	42.9	43.4	43.4	43.5	43.4
		K2		43.7	43.2	42.9	43.5	42.9	43.4	43.3
		K3		44.1	43.1	43.0	43.3	43.3	43.6	43.4
					N2		44.0	43.8	44.0	43.9
					N3		43.1	43.0	43.5	43.2
					N4		43.1	42.7	43.0	42.9
Mean							43.4	43.2	43.5	43.4

68/Dd/1.4

YIELD OF FIXED OIL

	K1	K2	K3	N2	N3	N4	E	L	EL	Mean
	(±46.4)			(±46.4)			(±46.4)			(±26.8)
C	724	844	755	735	775	813	765	870	687	774
M	763	767	752	665	746	871	761	742	779	761
W	681	722	867	668	692	910	815	741	714	757
				(±46.4)			(±46.4)			(±26.8)
		K1		641	754	772	723	733	712	722
		K2		720	726	887	798	806	729	778
		K3		706	733	935	819	814	740	791
							(±46.4)			(±26.8)
					N2		675	732	661	689
					N3		753	730	730	737
					N4		914	891	790	865
Mean (±26.8)							780	784	727	764