

SWEET CORN

(70/G/SC/1)

Nitrogen and seed rates Rothamsted Garden Plots.

Design: 4 randomised blocks of 12 plots.

Area of each plot: 0.0031. Area harvested: 0.0012.

Treatments: All combinations of:-

1. Seed spacing: 3 in. (R1), 6 in. (R2), 12 in. (R3) in rows 2 feet apart.
2. Nitrogen: None (N0), 0.5 (N1), 1.0 (N2), 1.5 (N3) cwt as 'Nitro-Chalk'.

Basal applications: 1230 lb (0:14:28) broadcast. Insecticide: Phorate at 1.5 lb drilled at 4 in. depth in the rows. Weedkiller: Atrazine at 1.5 lb in 35 gals.

Cultivations, etc.: Basal PK applied: 21 Nov, 1969. Ploughed: 23 Dec. Insecticide applied, seed drilled: 15 May, 1970. Weedkiller applied: 20 May. N applied: 3 June. Harvested by hand: 9 Sept. Variety: Early King. Previous crops: Fallow 1968, potatoes 1969.

NOTE: Cobs were counted and weighed in 2 grades:

1. Large saleable, 2. Small saleable.

Standard errors per plot:

Total saleable cobs, cwt:	11.68 or 11.8% (33 d.f.)
Number of saleable cobs, thousands:	2.74 or 13.1 (33 d.f.)

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SUMMARY OF RESULTS

	NO	N1	N2	N3	Mean
TOTAL SALEABLE COBS: CWT					
	(±5.84)				(±2.92)
R1	88.6	112.8	138.7	118.2	114.6
R2	86.6	92.0	108.1	107.3	98.5
R3	78.0	78.7	97.4	80.6	83.7
Mean (±3.37)	84.4	94.5	114.7	102.0	98.9
NUMBER OF SALEABLE COBS: THOUSANDS					
	(±1.37)				(±0.68)
R1	20.5	24.9	31.8	25.8	25.8
R2	18.6	18.4	21.4	21.2	19.9
R3	16.1	16.8	19.5	16.1	17.1
Mean (±0.79)	18.4	20.0	24.2	21.0	20.9