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# Numerical Results of the Field Experiments 1970

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## 70/G/SC/1 Sweet Corn Nitrogen and Seed Rates

### Rothamsted Research

Rothamsted Research (1971) *70/G/SC/1 Sweet Corn Nitrogen and Seed Rates ; Numerical Results Of The Field Experiments 1970*, pp 320 - 321 - DOI: <https://doi.org/10.23637/ERADOC-1-59>

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.)   |

70/G/SC/1

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    |