

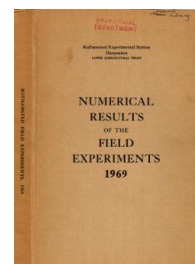
Thank you for using eradoc, a platform to publish electronic copies of the Rothamsted Documents. Your requested document has been scanned from original documents. If you find this document is not readable, or you suspect there are some problems, please let us know and we will correct that.



ROTHAMSTED
RESEARCH

Numerical Results of the Field Experiments 1969

[Full Table of Content](#)



69/G/SC/1 - Seed Spacing, Phorate & N - Sweet Corn

Rothamsted Research

Rothamsted Research (1970) *69/G/SC/1 - Seed Spacing, Phorate & N - Sweet Corn ; Numerical Results Of The Field Experiments 1969*, pp 324 - 326 - **DOI:**

<https://doi.org/10.23637/ERADOC-1-96>

SWEET CORN

(69/G/SC/1)

Seed spacing, phorate and nitrogen - Garden Plots.

Design: 2 blocks of 8 plots, split into 6.

Area of each sub plot: 0.0024. Area harvested: 0.0008.

Treatments: All combinations of:-

- Whole plots: 1. Seed spacing: 3 in. (3), 6 in. (6), 12 in. (12), 18 in. (18) in rows 2 feet apart.
2. Phorate: None (0), phorate applied at 1.5 lb a.i. in rows, close to seed (P).
Sub plots: 3. Nitrogen: 0.75 (N1), 1.50 (N2), 3.00 (N4) cwt N as 'Nitro-Chalk'.
4. Time of application of N: All in seedbed (S1), half in seedbed plus half at tasselling (S2).

Basal applications: 1120 lb (0:14:28) broadcast before ploughing.

Weedkiller: Atrazine at 1.5 lb in 30 gals.

Cultivations, etc.: Basal PK applied: 18 Nov, 1968. Ploughed:

10 Dec. Seed sown by seed-spacing drill, phorate applied:

21 May, 1969. N applied: 10 June and 1 Aug. Basal irrigation applied at 1 inch: 11 June. Weedkiller applied: 16 June.

Cobs harvested: 24 Sept. Variety: Early King. Previous crops: Fallow 1967, wheat and barley 1968.

NOTE: Cobs were separated into 3 grades:

1. Large saleable, 2. small saleable, 3. unsaleable.

Cobs in saleable grades were counted, and all grades weighed.

Standard errors per plot.

Saleable cobs, cwt: Whole plot: 7.11 or 7.2% (7 d.f.)

Sub plot: 14.68 or 14.9% (39 d.f.)

Number of saleable cobs, thousands:

Whole plot: 1.32 or 5.8% (7 d.f.)

Sub plot: 3.83 or 17.0% (39 d.f.)

SUMMARY OF RESULTS

TOTAL SALEABLE COBS: CWT

	3	6	12	18	Mean
	(±5.03)				(±2.51)
O	110.6	103.6	84.9	66.8	91.5
P	119.2	125.9	107.0	69.3	105.3
	(1) and (2)				(±2.60)
N1	115.5	110.5	108.4	64.6	99.7
N2	117.2	119.1	88.2	74.3	99.7
N4	112.1	114.7	91.2	65.4	95.8
	(3) and (4)				(±2.12)
S1	115.9	114.8	96.1	60.8	96.9
S2	114.0	114.7	95.8	75.4	100.0
Mean(±3.56)	114.9	114.7	95.9	68.1	98.4

- (1) (±5.53) (3) (±4.65) For use in horizontal and diagonal comparisons only
 (2) (±5.19) (4) (±4.24) For use in vertical and interaction comparisons only

NUMBER OF SALEABLE COBS: THOUSANDS

	3	6	12	18	Mean
	(±0.93)				(±0.47)
O	28.3	24.4	17.9	15.1	21.5
P	31.9	26.6	20.8	15.0	23.6
	(1) and (2)				(±0.68)
N1	31.5	24.0	22.1	15.0	23.1
N2	30.6	26.6	18.1	15.4	22.7
N4	28.4	25.9	17.8	14.8	21.7
	(3) and (4)				(±0.55)
S1	30.3	25.5	20.2	13.4	22.3
S2	30.0	25.5	18.6	16.7	22.7
Mean(±0.66)	38.1	25.5	19.4	15.1	22.5

(1) (±1.29) (3) (±1.02) For use in horizontal and diagonal comparisons only

(2) (±1.35) (4) (±1.11) For use in vertical and interaction comparisons only