

See D.G. 7.
EMPIRE COTTON GROWING CORPORATION.

INCORPORATED BY ROYAL CHARTER.

OFFICES:
KING'S BUILDINGS,
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*9, Kingsmere Road,
Wimbledon Common,
London, S.W. 19.*

In any further letters on
this subject, please quote *R.2(2).*

(TELEPHONE: PUTNEY 5710.)

8th November 1943.

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Dear Sir,

I write in reference to a letter addressed to us by Mr. W. G. Cochran, dated May 23rd 1936, in which he asked if we could supply any data relating to uniformity trials with cotton. In my reply of May 26th 1936, I explained that even if such data were available at any of the Corporation's Experiment Stations, they would not normally be forwarded to this office. I therefore gave a list of our Stations with the names of the officers in charge of each and suggested that Mr. Cochran should address his enquiry direct to those officers. I do not seem to have received any acknowledgement of my letter, but it appears that Mr. Cochran must have acted on my suggestion, as I have just received from Mr. Ducker in Nyasaland a letter with which he sends some data from a trial with groundnuts, which he asks me to send you in case they are of interest. I attach the data supplied.

In his covering letter, Mr. Ducker says that the figures were obtained from $44 \times 5 = 220$ identical plots, each $\frac{1}{220}$ acre in area. The variety of groundnut used was Gambia Bunch. He adds that he would appreciate advice on the plot lay-out which these figures indicate to be advisable for future experiments with groundnuts, and says that his present idea is that long single-ridge plots, which are very convenient in practice, would be sound statistically.

We should appreciate any advice your Statistical Department can give after studying Mr. Ducker's figures.

Yours faithfully,

L. G. Kilby
Secretary.

The Secretary,
Rothamsted Experimental Station,
Harpenden,
Herts.

To obtain kernel weights take
65% of weights in shell

Nyasaland
Cotton Experimental Station, Domira Bay.
Season 1942/43.

Weighings in Lb. nuts in
shell

A level piece of ground, free from
ant heaps and other inequalities,
of typical ground nut soil was
used for the experiment. Its
dimensions were 110 yards by 44 yards.
Total row lengths were 110 yards.

Ground-nut Uniformity Trial. (Var. *Gambir Bunch*)

Western Half.
110 plots.

Plots each $\frac{1}{220}$ acre

Single ridge plots each one chain
in length, and one yard apart.
Two rows of groundnuts are planted
per ridge, staggered, at 1 foot
between holes. Holes are therefore
spaced at 18" x 12".
Two seed are planted per hole.

N
W + E
S

8.4	8.7	8.9	8.7	8.2	8.4	7.7	8.6	9.0	8.3	8.4	8.0	7.1	7.8	9.1	8.8	8.2	8.3	7.8	8.7	6.9	8.7
7.3	8.6	9.9	7.2	8.6	7.0	8.9	7.7	11.6	8.6	6.7	8.4	7.1	8.5	7.9	8.5	8.0	8.9	8.7	9.2	10.6	10.3
8.0	9.2	9.5	7.7	9.7	8.7	8.8	10.1	10.2	7.6	12.4	10.7	8.3	9.4	8.7	9.6	12.1	9.0	8.5	10.9	10.1	10.0
9.7	9.1	10.1	8.0	11.9	9.9	10.9	11.5	9.7	10.0	11.3	11.7	8.6	11.4	10.8	11.4	10.3	11.3	11.7	13.1	12.7	12.3
7.0	9.4	10.9	10.4	9.4	10.0	9.8	9.4	10.2	10.1	10.4	10.7	9.5	10.0	9.8	8.8	9.6	10.2	7.7	9.6	10.2	11.3
Eastern Half. 110 plots.																					
9.5	8.2	8.2	7.5	8.0	7.2	9.4	9.2	8.9	9.2	8.3	8.7	6.0	8.7	6.6	8.4	8.1	8.1	7.4	8.0	7.5	7.6
9.8	9.0	8.5	9.7	10.8	10.4	8.7	11.0	9.6	9.6	8.1	8.5	7.2	7.6	7.8	7.8	8.5	8.2	8.3	9.0	6.7	7.6
10.0	10.6	9.7	9.7	9.7	9.9	9.9	9.5	9.3	9.1	7.7	10.8	8.1	9.1	9.0	8.6	7.6	6.9	7.4	9.3	8.6	9.6
10.0	11.0	10.6	9.4	11.1	12.2	10.9	10.3	10.6	10.6	8.2	9.8	10.0	9.4	9.3	7.4	10.1	8.2	7.3	9.9	8.6	9.4
11.3	10.7	9.7	10.1	11.4	12.4	12.8	12.4	11.4	10.2	9.4	9.8	11.3	11.1	8.8	10.5	10.5	11.8	10.5	10.2	9.4	9.3

The eastern and western halves shown separately above were contiguous with no intervening path.