501

KANSAS STATE COLLEGE
OF AGRICULTURE AND APPLIED SCIENCE
DEPARTMENT OF AGRONOMY
MANHATTAN, KANSAS

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2 etc

Mr. W. G. Cochran
Rothamsted Experimental Station
Harpenden, Herts, England

Dear Mr. Cochran:

I have your letter of March 21 in which you ask for the data from the uniformity trials at this experiment station on which my article (The Relation of Varying Rainfall to Soil Hetereogeneity as Measured by Crop Production) is based.

This data has not been published and I am therefore furnishing you typewritten copies of the actual yields obtained. The plan of the experiment including the number of plots, their size and arrangement is described in the published article. In addition to the actual yields furnished you I am sending tables showing the rank in yield of each plat in its respective series for each of the years in which yields were obtained. You will note by these figures giving the rank in yield the basis for my statements in the published article to the effect that under limited rainfall conditions, and I might add in particular on land with sufficient slope to permit of some runoff at the time of heavy rains, uniformity trials appear to be very definitely limited in their value in indicating permanent differences in productivity of any given set of experimental plats. If you have any comments or criticisms on the data or the conclusions I shall be very glad indeed to have them.

Very truly yours,

W. H. Metzger

W. H. Metzger
Associate Professor of Soils

WHM:HC

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Rank in Yield for the Year Indicated
Total Dry Matter
Series E

Plat No.	1925	1926	1927	1928	1929	1930	1931	1932	1934	Average Rank
1	7	5	7.5	12	7	10	6	11	1	7.4
2	9	2	3.5	9	8.5	9	10	12	9.5	8.0
3	6	3.5	7.5	11	11	8	11	8	5	7.9
4	11	9	9	10	12	1	12	10	9.5	9.3
5	10	10	2	8	10	12	8	5	8	8.0
6	4	11	5	7	8.5	11	7	9	4	7.4
7	8	8	6	6	5	7	9	1	3	5.9
8	12	3.5	3.5	2	4	5	5	4	11	5.5
9	3	1	10	5	3	4	4	7	12	5.4
10	1	6	1	1	2	2	2	3	6	2.6
11	5	7	11	4	1	3	1	2	2	4.0
12	2	12	12	3	6	6	3	6	7	6.3

Rank in Yield for Year Indicated
(Total Dry Matter)
Series F

Plat No.	1925	1926	1927	1928	1929	1930	1931	1932	1934	Average
1	4	3	6	12	5	10	6	6	3	6.1
2	2	4	8	7	2	4	7	3	2	4.3
3	5	2	9.5	10	4	5	11	1	11	6.5
4	6	6	1	9	10	12	10	2	10	7.3
5	11	7	4	11	11	11	12	11	12	10.0
6	1	10	2	6	6	8	8	4	4	5.4
7	7	1	7	4	1	2	9	7	1	4.3
8	10	5	3	1	7	7	5	8	8	6.0
9	12	9	9.5	8	12	9	3	10	9	9.0
10	3	11	11.5	3	8	3	1	9	5	6.0
11	9	8	5	2	3	1	4	5	6.5	4.8
12	8	12	11.5	5	9	6	2	12	6.5	8.0

Rank in Yield for Year Indicated
(Total Dry Matter)
Series G

Plot	1925	1926	1927	1928	1929	1930	1931	1932	1934	Average
1	2	3	5	11	1	5	9	5	4	5.0
2	12	12	10	10	5	8	11	8	12	9.8
3	6	5	8	9	7	7	12	6	5	7.2
4	7	8	2	7	6	9	10	12	11	8.0
5	1	2	3	6	4	4	8	4	1	3.6
6	8	4	7	4	3	2	6	7	2	4.7
7	4	1	1	8	9	10	4	11	6	6.0
8	9	7	6	2	11	11	3	9.5	3	6.8
9	11	11	11	12	12	12	5	2	9	9.4
10	5	9	9	5	10	6	2	3	8	6.3
11	3	6	4	3	2	1	1	1	7	3.1
12	10	10	12	1	8	3	7	9.5	10	7.8