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## UNIVERSITY OF MINNESOTA DEPARTMENT OF AGRICULTURE UNIVERSITY FARM, ST. PAUL

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DIVISION OF AGRONOMY AND PLANT GENETICS

April 11, 1936

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

Dear Mr. Cochran:

In reply to your letter of March 21, the individual plot yields of the uniformity trials reported on in the paper "Size and Shape of Plot in Relation to Field Experiments with Sugar Beets", Jour. Agric. Res. Vol. 44: pages 649-668, 1932 are given on page 652 of that article.

The data used in "Further Studies of Size and Shape of Plot in Relation to Field Experiments with Sugar Beets", Jour. Agric. Res. 47: 591-598, 1933 were not reported in that article. I have had the actual data typed and including a copy. I asked the typist to check this copy carefully with the original and assume that this copy is correct.

Dr. C.H. Goulden of the Dominion Rust Research Laboratory, Winnipeg, Manitoba, Canada, stopped here last Saturday for a visit. Dr. Goulden says that he has uniformity trial data on 2400 square yard plots of wheat. He said that the yields were extremely variable but may be of some use. I believe Dr. Goulden would furnish you with a copy of these data if you are interested in them.

Sincerely yours,

F. R. Immer

Associate Professor of Agronomy and Plant Genetics

Field in pounds per plot (less 40 pounds) of sugar beets grown in Minnesota 1931.

Plots were single rows 22" apart and 33' long. To Otali actual fills and topounds but figure with.

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30.6	35.0	8.0	38.4	6.5	15.1	18.3	21.7	21.8	20.1	20.9	21.8	13.1	12.3	21.0	20.0	17.8	16.1	13.7	23.6	18.0	18.2	17.5	9.8	4.3	8.1	18.1	28.0	18.7	1.1	1		
24.0	13.0	16.3	34.7	19.3	12.9	16.8	19.5	30.4	16.6	39.9	20.1	11.2	11.5	19.7	23.6	19.8	15.7	20.9	19.1	22.0	20.5	14.2	9.9	24.1	18.9	37.2	中,中	25.3	28.6	2		
24.8	19.9	19.6	22.9	10.9	23.1	20.1	23.5	37.9	33.0	28.4	18.5	22.7	21.7	<b>4.7</b>	16.4	12.2	24.7	16.0	12.5	16.0	22.6	22.0	14.2	19.5	24.6	19.4	22.4	15.7	8.42	3		
17.6	15.5	13.7	30.0	13.7	21.2	16.3	27.6	18.3	21.2	13.1	9.9	19.3	10.9	16.0	18.3	<b>址.7</b>	9.8	13.7	22.3	22.6	16.6	21.0	25.6	19.0	28.0	29.4	24.7	30.1	23.2	4		
30.5	15.3	18.9	17.4	20.4	18.9	15.0	17.8	16.1	26.0	24.2	22.5	18.9	8.0	16.6	27.9	17.0	26.3	18.1	27.3	23.0	21.8	4.3	21.5	19.0	19.1	29.1	22.7	28.0	10.5	5	Block	
16.8	26.0	16.1	32.3	21.6	19-4	18.9	22.4	31.0	18.0	26.7	23.4	22.4	25.3	12.7	12.7	17.3	22.6	18-4	16.8	23.2	27.4	17.9	19.4	18.0	30.8	23.6	22.5	17.5	18.9	6	Number	
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10				26.9					200	23.7		•		•		12.7														8		
23.5	25.0	17.3	21.2	23.1	13.3	24.5	27.6	32.3	21.9	18,9	28.2	22.4	18.6	20.7	19.8	22.6	18.0	19.6	21.8	18.1	25.0	23.3	16.7	12.3	19.0	15.9	14.1	13.4	11.2	9		
17°77	19.2	20.3	12.8	21.2	20.2	19.7	14.5	20.0	25.1	9.4	13.3	29.8	10.0	15.7	7.4	19.6	10.4	15.2	20.5	19.0	16.1	24.9	4•九	20.3	22.9	13.4	19.5	13.8	13.5	10		0
230.1	216.0	168.7	250.2	173.7	194.0	184.2	224.0	268.2	226.6	237.4	207.3	189.5	165.5	185.6	180.1	169.2	181.8	171.2	211.5	203.7	209.4	183.6	185.8	188.0	208.5	229.0	199.3	192.5	171.2		Total	

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Total		7 174	266.3	10001	255.0	216.7	196.8	181.0	221.6	233.7	182.5	243.3	178.5	215.7	206.6	176.8	193.1	185.4	193.5	172.7	187.9	165.3	207.7	161.8	195.7	183.1	191.9	108.7	173.5	7-17	156-4	131.1
	10	3 01	72.5	17.0	21.8	17.0	13.9	12.8	19.2	32.9	16.5	15.8	11.4	28.1	21.3	13.5	20.6	18.1	30.0	21.4	22.5	21.7	21.3	16.9	20.2	19.5	29.3	ત્	27.7	25.3	20.5	19.6
	6	zl. 1	1.75	1001	29.5	20.1	23.5	25.2	17.5	24.0	16.3	27.4	1704	20.0	21.9	17.9	25.3	28.6	25.6	25.8	20.7	19.0	25.1	18.7	23.0	29.3	25.3	17.7	24.5	13.2	5.43	14.5
	8	7 80	26.02	1007	0.02	21.9	18.8	21.0	23.9	27.2	17.9	29.1	50.1	17.0	17.7	18.8	23.7	24.2	15.2	13.3	17.3	17.3	26.0	26.7	21.0	28.5	50.6	12.3	18.8	15.6	17.1	14.5
	7	0	יי פר	2.5	4.12	15.8	15.5	14.8	16.5	20.3	12.7	12.7	12,1	20.9	13.3	18.3	18.0	13.2	20.8	18.6	21.7	9.8	23.2	7.2	22.9	50.9	16.1	2.9	7.2	1.2	11.3	6.
Block Number	9	0 40	16.7	- 1	2/.1	16.5	16.5	19.2	35.7	23.1	18.1	25.4	17.8	21.1	22.7	15-4	15-4	25.6	13.4	17.0	15.4	9.5	21.3	8.3	22.7	15.8	8.47	8.0	9.1	29.3	15.0	16.6
Block	5	7 01	1 91	1-0	7.22	40.7	25.7	21.5	25.3	18.1	20.2	19.7	20.5	19.5	30.9	19.1	12,1	14.8	21.8	13.8	18.7	19.1	19.1	9.5	13.1	21.0	7.77	11.7	30.8	23.7	11.9	15.0
	4	8 31	8	1 6	C.62	27.8	16.7	17.8	18.6	17.3	18.2	26.7	55.9	19.8	27.6	17.3	31.9	24.1	12.4	15.4	17.6	134	21.0	70.4	22.0	10.2	20.8	74.6	13.7	7.1	22.3	13.2
	3	13.0	0	100	7.17	16.4	29.5	18.4	25.5	22.7	17.7	34.1	15.7	18.5	19.4	18.0	15°71	23.1	19.8	18.1	8.17	16.4	17.0	17.1	17.2	13.0	74.6	74.4	10.6	10.3	7.3	10.5
	Ø	C.	0	700	2000	23.7	19.3	16.9	15.8	19.8	17.4	25.7	19.8	22.3	16.8	13.2	19.7	9.9	22.7	15.8	16.6	18.6	19.5	19.5	18.6	13.3	13.4	9.5	19.4	7.0	9.41	12.3
	1	2,91	7 21	) H	60.00	16.8	17.4	13.4	23.6	28.3	27.5	26.7	12.8	28.8	15.0	25.3	0.17	7.1	11.8	16.5	12.6	20.5	14.2	23.5	15.0	11.9	55.6	17.4	12.0	0.6	12.1	14.0
ROW	Number	71	100	1 1 1	Ci	7	35	36	37	38	39	악.	17	4	2	#	5	94	147	84	64	20	51	52	23	左	52	26	21	58	29	8

Total 1081.6 1137.2 1158.6 1152.6 1192.7 1197.7 1050.5 1244.4 1280.5 1098.4 11,594.2

There we will date in founds pur plit for wings now plate 33 peet ling, each block him 35 feet. Its field layout a specially the range of the best of the way and then a the war and then condited The brief of 180 / stand of noneetly consisted but a part.