

EXP 31. XLS

P1

EXPERIMENT 31

Notes to Uniformity Trial Picking Results, Cotton Station,

Gatooma, S.R. 14th June, 1935

Site and Strain: the U.4/64/7/10/1 cotton bulk in H-C land, running the full width of the field. Not Fertilized. Following maize grain crop.

Agricultural details: planted 23/11/34, by machine, 3'6" rows: thinned to 1 plant at 6" in the row - probably nearer 1 at 8" in practice, but a good and uniform "commercial" stand throughout, to the eye. Harvested 14/6/35.

Crop History: season good until peak flowering - good growth, heavy flowering - then 5 weeks drought in critical period for crop, which, aggravated by exceptionally heavy aphid attack and heavy boll-worm (*Heliothis obsoleta*) attack accounts for low yield. Second crop promising, but abnormally cold weather spoilt this. (Note: because of the poor absolute yield, among other reasons, the data from this uniformity trial were never worked up).

Lay-out: At harvest, a block of 24 rows x 500' staked, and each row pegged off into 20 lengths of 25' each, giving 480 small plots. In the plan, the rows are numbered alphabetically A to X inclusive, and the 25' lengths from 1 to 20 inclusive along the rows.

If any use is to be made of these data it would be advisable to neglect the series of plots A1-B1-C1...X1, and also A20-B20-C20...X20, as both of these series are bordering roads.

GenStat Data

	PLOT YIELDS IN OUNCES													
plot:0	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	4	5	7.5	11	8	10	9	10	7.5	6.5	7	5	7.5	8
2	15	16.5	16	20.5	10.5	17.5	14.5	12	7.5	15	14.5	8	6	9.5
3	15	13.5	10.5	15.5	12.5	19.5	20	14	9.5	18	17.5	11	12.5	14.5
4	11.5	8	11.5	7.5	5.5	10	14.5	13	7.5	10.5	6.5	9.5	4.5	8.5
5	8.5	7.5	6.5	4.5	10	9.5	13.5	14.5	7.5	17	12	6	8	8.5
6	5	8.5	6	7.5	6.5	9	5.5	8	8.5	3.5	7.5	7	7	7.5
7	6	10	10.5	15	8	10.5	17	13.5	3.5	6	9	8	7.5	13
8	8	7	5	4.5	6	6	6.5	5.5	6	5	6	6	8	12
9	9.5	11.5	9	10.5	9	6.5	11.5	8.5	9	8	7.5	5	6.5	6.5
10	11	15.5	11.5	8	14	11	9	10	8.5	5.5	7	8	12.5	11.5
11	4.5	7	5	9	9	4.5	7	8	5	7	9.5	4	2.5	6
12	6	12.5	12.5	9	8.5	10.5	9	8	8.5	4.5	8	6	4.5	3.5
13	4.5	5	9	4	9.5	12.5	7.5	9	7	2.5	4.5	3	4.5	4
14	9.5	8.5	3	5.5	3.5	6.5	4.5	3	3	8.5	5	7.5	4	6
15	5.5	4	6.5	3.5	4.5	5	5	2	3	4.5	5	3	4.5	7
16	7	4	6	4	7	6	8.5	2.5	3	4.5	2.5	4.5	4	4.5
17	8	4	6	4	7.5	7.5	3.5	6.5	4	8	6.5	11	6	5.5
18	4	5	3.5	6.5	9	5.5	2	3.5	5	4.5	8.5	5	7	5
19	4	3	3	5	3	1.5	2.5	2.5	3.5	4.5	5.5	4.5	7	6
20	4	2.5	3.5	2	3	3.5	4.5	5	1.5	4.5	4.5	2.5	3.5	4.5

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GenStat Data

O	P	Q	R	S	T	U	V	W	X
4.5	9	8	7.5	7	7.5	7	4.5	2.5	6
7	12.5	9.5	9	8	6.5	8.5	5.5	4.5	10
15.5	10	9.5	5	7	7.5	9	8	5	7.5
3.5	12	10.5	6.5	10.5	9.5	6.5	11	5	4
6.5	5.5	6	8	12	10.5	13.5	12	12	12
7	7	5.5	11	15.5	11	16	7	14	12.5
7	6	7.5	8	10	8	7.5	13	8.5	13.5
11	5.5	7.5	8.5	5	6.5	10.5	9	5	6
8.5	8.5	7	8	10	9.5	9.5	6.5	5	9
9.5	9	11	5	7.5	8	9	9	5.5	10
5	7	8	7.5	5.5	2	7	7.5	7.5	6
4	5	5.5	5	6.5	7	10	5	4.5	8
2	4	5.5	9.5	8	4.5	5.5	5.5	6.5	8
7.5	10.5	5.5	11	10.5	5.5	4	13.5	9.5	8.5
6	8	3.5	8	8.5	6	13.5	8.5	6.5	11.5
10.5	9.5	6.5	6.5	8	7.5	4.5	5	8	6.5
8.5	9	5.5	6.5	8.5	5	5.5	4	6	5.5
6.5	4	5.5	3.5	4.5	5	7.5	2.5	3	3.5
7.5	4	3	4	4.5	4	5.5	5.5	6.5	5.5
6	7.5	5.5	6	2	6	4.5	4.5	6.5	7