

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 |

EXP31.XLS

P2

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 |