

45. A 10×10 quasi-factorial experiment at Chinsurah with 100 strains of rice.

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F. Yates has introduced a new type of design in Agricultural experimentation which is of great value when a large number of varieties have to be tried out in the field. The design, which is known as 'quasi-factorial', avoids the need of having excessively large blocks thereby increasing the efficiency of the experiment.

Two experiments were laid out at Chinsurah during the 1937 season, one with 49 strains in a 7×7 quasi-factorial design and another with 100 strains in a 10×10 quasi-factorial design. This paper deals with the analysis of variance and co-variance of grain and straw yields of the second experiment. Significant differences among strains were noticed in respect of both grain and straw yields. The strains have been arranged according to yield of grain and straw yields. The strains have been arranged according to yield of grain after equalizing for straw.