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Comparative Efficiency Of Alpha Lattice Design And ...

Alpha lattice design of spring oats Format. A data frame with 72 observations on the following 5 variables. plot. plot number. rep. replicate. block. incomplete block. gen. genotype (variety) yield. dry matter yield (tonnes/ha) Details. A spring oats trial grown in Craibstone, near Aberdeen.

Use of an alpha-lattice design in 714 international yield trials of barley, durum wheat and bread wheat in 1990/91 to 1992/93 resulted in an average efficiency 18% higher than the randomized complete block design when average variance was used as the comparison criterion.

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Lattice Design | PART 4 (Hypothesis Testing and Conclusions)

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Types of Experimental Designs (3.3)

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Alpha-lattice designs Genotypes are distributed among the blocks so that all pairs occur in the same incomplete-block in nearly equal frequency. The design permits removal of incomplete-block effects from the plot residuals and maximizes the use of comparisons between genotypes in the same incomplete-block.

DAU.test: Finding the Variance Analysis of the Augmented block Design; DC: Data for the analysis of carolina genetic design; delete.na: Omitting the rows or columns with missing observations of a... design.ab: Design of experiments for a factorial; design.alpha: Alpha design type (0,1) design.bib:

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Efficiency of alpha-lattice designs in international ...

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The alpha lattice design in plant breeding and agronomy ...

Alpha Lattice Designs (1) These are incomplete block designs (sometimes balanced) that are . resolvable. Resolvable: Incomplete blocks group together into “super-blocks” that are complete. Example of a resolvable design for 9 treatments: Graeco-Latin square (table of these Appendix 6 B) 12 3: 456 78 9 ABC ABC BC A C A B trtsT CAB BCA () ()

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Unit 5: Statistics review - experimental design

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Alpha lattice is field experimental design (like RCBD) for evaluating large no. of entries and has greater precision than RCBD, I checked different software but they are not downloadable and I gone...

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The PBIB.test () function in package agricolae can be used for analysis of a field experiment in alpha lattice design. Please refer the tutorial <http://tarwi.lamolina.edu.pe/~fmendiburu/index-filer/download/ENagricolae.pdf>, page no. 51 for a detailed worked out example for designing and analyzing an alpha lattice design.

analysis of alpha lattice design - Cross Validated

Average estimated (RE) was 12.97, 5.93, 21.79, 35.50, 21.53, 23.96 and 26.69% for number of plants / m², tillering fertility, plant height (cm), spike length (cm), number of spikelets / spike, 1000-grain weight (g) and grain yield (g / m²), respectively, the high precision is obtained significantly to estimate treatment effects indicating that using an alpha lattice design in place of RCBD.

Evaluation of Relative Efficiency of Alpha Lattice Design ...

The instant results suggest that Alpha lattice Design must be used in field experiments because it provides smaller standard errors of differences, coefficients of variation and error mean squares as compared to RCBD. However to evaluate its wider applicability, more experiments must be conducted through-out the country.

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