

Statistical analysis of regional yield trials: AMMI analysis of factorial designs.

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Abstract : Crop yield trials provide information for agronomic recommendations and breeding selections, but their value is often limited by inaccuracy and other factors. A relatively new additive main effects and multiplicative interaction (AMMI) model

obtain accurate yield estimates, reliable selections and efficient designs, and understanding or modelling of complex data sets. AMMI yield estimates are accurate as raw means based on 2 to 4 times as many replications, and are all crops in all environments. This book, drawing on the literature but also presenting many new results, is the first systematic treatment of the AMMI model. After an introductory chapter covering the purpose and history of statistical analysis of data, chapter 2 reviews several basic statistical concepts, chapter 3 explains the model equation and calculations, and describes several related statistical models. Chapters 4 and 5 show the accuracy of AMMI yield predictions and the consistency of improvement of selections. Chapter 6 illustrates AMMI's usefulness for understanding and modelling large and complex yield trials, chapter 7 explores the design of efficient experiments, and chapter 8 presents some conclusions regarding the advantages of AMMI in terms of better accuracy, better selections, better models and better experiments.

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