1. Record Nr. UNINA9910132235903321

Autore	Yan Weikai
Titolo	Crop variety trials : data management and analysis / / Weikai Yan
Pubbl/distr/stampa	Chichester, England : , : Wiley-Blackwell, , 2014 ©2014
ISBN	1-118-68856-2 1-118-68857-0 1-118-68855-4
Descrizione fisica	1 online resource (361 p.)
Disciplina	631.5/2
Soggetti	Plant varieties - Testing Crops - Testing - Databases
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Theoretical framework for crop variety trials -- An overview of variety trial data and analyses -- Introduction to biplot analysis -- Data centering for biplot analysis -- Data scaling and weighting for GGE biplot analysis -- Frequently asked questions about biplot analysis -- Single trial data analysis -- Genotype by location two-way data analysis -- Genotype by trait data analysis and decision making -- Trait association by environment two-way table analysis -- Location by trait two-way data analysis -- Mega-environment analysis based on multi-year data -- Test location evaluation based on multi-year data -- Genotype evaluation based on multi-year data -- Building and utilizing a relational database for crop variety trial data -- Experimental design for variety trials and breeding nurseries -- Modules and functions in GGEbiplot.
Sommario/riassunto	Variety trials are an essential step in crop breeding and production. These trials are a significant investment in time and resources and inform numerous decisions from cultivar development to end-use. Crop Variety Trials: Methods and Analysis is a practical volume that provides valuable theoretical foundations as well as a guide to step-by-step implementation of effective trial methods and analysis in determining the best varieties and cultivars. Crop Variety Trials is

divided into two sections. The first section provides the reader with a sound theoretical framework