1. Record Nr. UNINA9910780880703321 Autore Moss Charles B (Charles Britt) **Titolo** Risk, uncertainty and the agricultural firm [[electronic resource] /] / by Charles B. Moss Hackensack, NJ,: World Scientific, 2009 Pubbl/distr/stampa **ISBN** 1-282-76156-0 9786612761560 981-4287-63-6 Edizione [1st ed.] Descrizione fisica 1 online resource (308 p.) Disciplina 630.68/4 Farm management - Decision making - Mathematical models Soggetti Risk - Mathematical models Uncertainty - Mathematical models Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references. Nota di bibliografia Nota di contenuto Dedication; Preface; Contents; 1. Introduction; 2. Probability Theory - A Mathematical Basis for Making Decisions Under Risk and Uncertainty; 3. Expected Utility - The Economic Basis of Decision Making Under Risk; 4. Risk Aversion in the Large and Small; 5. Portfolio Theory and Decision Making Under Risk; 6. Whole Farm-Planning Models; 7. Risk Efficiency Approaches - Stochastic Dominance; 8. Dynamic Decision Rules and the Value of Information; 9. Market Models of Decision Making under Risk; 10. Option Pricing Approaches to Risk 11. State Contingent Production Model: The Stochastic Production Set12. Risk, Uncertainty, and the Agricultural Firm - A Summary and Outlook; Appendix A. Measure Theory and the Justification of Random Variables; Appendix B. Derivation of the Moments of the Inverse Hyperbolic Sine Distribution; Appendix C. Numerical Techniques for Applied Optimization and Solution of Nonlinear Systems of Equations;

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Appendix F. R Program to Derive Optimum Portfolio with and without a Risk-Free AssetAppendix G. Program to Compute the Efficient Frontier with and without a Risk-Free Asset; Appendix H. GAMS Program for the

E. A GAMS Program to Select Optimal Portfolios

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Sommario/riassunto

This text is the first major survey of risk analysis from the perspective of the agricultural firms since ""Agricultural Decision Analysis"" by Anderson, Dillon, and Hardaker published in 1977. In addition to updating the traditional material from that text, this book includes the statistical foundations of decision making under risk and uncertainty. Adding to the material covered in Anderson, Dillon, and Hardaker, the text includes material on dynamic decision rules, the arbitrage pricing model, real options theory, and state-contingent production relationships. ""Risk, Uncertainty, and the A