



# Monitoring and Predicting Agricultural Drought: A Global Study

By Vijendra K. Boken, Arthur P. Cracknell, Ronald L. Heathcote

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Agricultural droughts affect whole societies, leading to higher food costs, threatened economies, and even famine. In order to mitigate such effects, researchers must first be able to monitor them, and then predict them; however no book currently focuses on accurate monitoring or prediction of these devastating kinds of droughts. To fill this void, the editors of *Monitoring and Predicting Agricultural Drought* have assembled a team of expert contributors from all continents to make a global study, describing biometeorological models and monitoring methods for agricultural droughts. These models and methods note the relationships between precipitation, soil moisture, and crop yields, using data gathered from conventional and remote sensing techniques. The coverage of the book includes probabilistic models and techniques used in America, Europe and the former USSR, Africa, Asia, and Australia, and it concludes with coverage of climate change and resultant shifts in agricultural productivity, drought early warning systems, and famine mitigation. This will be an essential collection for those who must advise governments or international organizations on the current scope, likelihood, and impact of agricultural droughts.

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## **Editorial Review**

### Review

"This book's 34 chapters provide quite a thorough and capable overview of the techniques used to monitor drought in both developed and developing countries.... *Monitoring and Predicting Agricultural Drought* has a wealth of information on crops, climate, and drought monitoring techniques for 19 countries and regions of the world."-- *Bulletin of American Meteorological Society*

"Quite simply, drought kills. In an effort to combat it, the international contributors of these 34 papers cover the basic concepts of agricultural drought and its monitoring, prediction and analysis, techniques and examples of remote sensing such as passive and active microwave systems, and case studies from the Americas, Europe, Russia, the Near East, Africa, Asia, and Australia."--*SciTech Book News*

"The book is well written and edited."--*CHOICE*

### About the Author

Vijendra K. Boken is at University of Mississippi. Arthur P. Cracknell is at University of Dundee (Emeritus).

## **Users Review**

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#### **Michael Battle:**

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