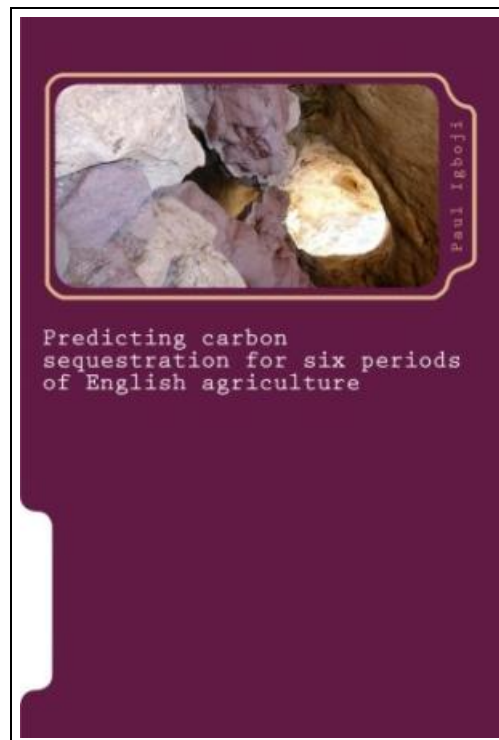


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Createspace Independent Publishing Platform, United States, 2016. Paperback. Condition: New. Large Print. Language: English . Brand New Book ***** Print on Demand *****. Several process-based models exist for the assessment of soil, water and air nutrient dynamics. These models have been developed after several years of continuous monitoring, testing, and re-validation. Two of the most widely used models, the CENTURY 4.0 and the RothC models have been used extensively. Modelling helps to understand the principal mechanisms affecting ecosystem functioning, and the causes of disturbances to them. They are essential for long term predictions and in making recommendations aimed at reducing harmful effects and preventing environmental disturbances. Many authors have demonstrated the benefits of using computer models in agriculture .The CENTURY model version 4.0 embodies the best understanding to date of the biogeochemistry of C, N, P, and S. The primary purposes of the model are to provide a tool for ecosystem analysis, to test the consistency of data, and to evaluate the effects of changes in management and climate on ecosystems. The CENTURY Agroecosystem Version 4.0 was developed to deal with a wide range of cropping system rotations and tillage practices, for the systematic analysis of the effects of management, and global change on productivity, and sustainability of agroecosystems. Version 4.0 integrates the effects of climate and soil driven variables including agricultural management to simulate C, N, and H₂O dynamics in the soil-plant system. Simulation of complex agricultural management systems including crop rotations, tillage practices, fertilization, irrigation, grazing, and harvest methodologies are now possible in this enhanced release of the model. The CENTURY model is a general FORTRAN model of the plant-soil ecosystem that has been used to represent C and nutrient dynamics for different types of ecosystems (grasslands, forest, crops, and savannahs). Aspects of the current version are discussed...



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