

Economics models in agricultural policy formulation and assessment

Maynooth College, Department of Economics - An Economic Assessment of Farmland Loss in North Carolina



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Addressing climate change adaptation with a stochastic integrated assessment model: Analysis of common agricultural policy measures

Generalization of behavioral assumptions and investigation of their effects on investment and policy analysis is also needed. Specific model improvements, such as those discussed in this paper, would be based on further testing and evaluation of existing models, the development and testing of modular model components and integration, and linkages of model integration platforms to new data management and visualization tools. Average activities represent the mean of activities carried out on a representative sample of farms, while typical activities are described on the basis of representative activities such as available in farm management handbooks or extension brochures.

Agricultural policy monitoring and evaluation

Some management decisions like fertilization rates are based on intra-seasonal processes getting the highest profit that season ; other longer-term decisions span multiple growing seasons multi-season crop rotations; machinery investments; livestock purchases and sales, and perennial crop planting and management decisions.

Agricultural Policy Impact Analysis with Multi

Moreover, accurate assessment of some indicators e. There are several approaches for scaling up, including use of gridded models and development of simpler quasi-empirical models for landscape-scale analysis ,. A system that integrated user demand into the model development process could lead to implementation of new data-management feedback loops within models.

Towards a new generation of agricultural system data, models and knowledge products: Design and improvement

Genetics, agronomic management production input , weather, soil, information technology and machinery will need to be linked in a system approach to address these informational needs. European Commission Rural Development 2014-2020. Third, rapid advances in data acquisition

and management, modeling, computation power, and information technology provide the opportunity to harness this knowledge in new and powerful ways to achieve more productive and sustainable agricultural systems.

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