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Bioeconomic farm models have been very instrumental in capturing the technical aspects of human-nature interactions and in highlighting the economic consequences of resource use changes.

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Bioeconomic farm models have been very instrumental in capturing the technical aspects of human-nature interactions and in highlighting the economic consequences of resource use changes. They may elucidate the tradeoffs that farm households face in crop choice and farming practices, assess the profitability of various land-use options and ...

From Bioeconomic Farm Models to Multi-Agent Systems ...

Bioeconomic models have evolved over time from simple models focused on equilibrium outcomes associated with static annual harvests and effort levels (e.g., Gordon, 1954; Schaefer, 1957) to more complex dynamic models that explore the implications of the timing, location, and methods of harvests, the linkages between different species, and the impacts of fisheries on other ecosystem services. From the beginning, these models have emphasized the interconnection of the natural and human ...

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The bio-economic modeling approach presented in this book is a result of two distinct developments: by one side, the improvement of bio-physical simulation models applied to agricultural systems and by the other, the evolution of agricultural policies demanding a kind of assessment that conventional economic models are not able to provide.

Bio-Economic Models applied to Agricultural Systems ...

FSSIM is an optimization model which maximizes a farm's total gross margin subject to a set of resource and policy constraints. Total gross margin is defined as total revenues including sales from agricultural products and compensatory payments (subsidies) minus total variable costs from crop and

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animal production.

FSSIM, a bio-economic farm model for simulating the ...

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The Grange Dairy Beef Systems Model (GDBSM) was used to simulate the relationship between grazed grass supply and demand and then determine the profitability of Holstein-Friesian male animals finished as bulls at 16 (B16), 19 (B19) and 22 (B22) months of age and steers at 24 (S24) months of age.

Bioeconomic modelling of male Holstein- Friesian dairy ...

Classic models are shown, such as the Gordon-Schaefer based on the logistic. We also develop new bioeconomic approaches, such as a distributed-delay model to add realism to Smith's fleet dynamics approach. Chapter 2 also includes an introductory version of a bioeconomic yield-mortality model, and dynamic age-structured models.

Fisheries bioeconomics Theory, modelling and management

Traditionally, bioeconomic models are used to analyse human uses of ecosystems for production and consumption. As such, the analysis focuses on changes in a limited set of environmental indicators that matter (directly) to human beings.

Bioeconomic modelling: Integrating economic and ...

2.4. Age-structured bioeconomic models. Age structured models consider factors affecting biomass through time, such as growth, recruitment and mortality, in a population homogeneously distributed in space and time. These models are based on the static model of Beverton & Holt (1957), and explicitly include the age structure of the population.

Fisheries bioeconomics Theory, modelling and management

FSSIM is a static bio-economic model to assess at the farm level the impact of agricultural and environmental policies on farm performance and on sustainable development indicators. It consists of a data module for agricultural management (FSSIM- AM) and a mathematical programming model (FSSIM- MP).

Bio-economic modeling: State-of-the-art and key priorities

Bioeconomic models are integrated economic-ecological models, with all the advantages and disadvantages of such models. Most bioeconomic modelling seeks appropriate levels of stock and catch to assist resource managers, normally with environmental conditions assumed constant.

A Review of Selected Bioeconomic Models with Environmental ...

Keywords: integrated assessment, environmental policy, agricultural policy, market liberalization, bio-economic model, farming systems, mathematical programming, maximum entropy estimation, data envelopment analysis, agricultural activity, land use, future studies. The main objective of this PhD thesis was to develop and evaluate a generic bio-economic farm model that can be used under ...

Bio-economic farm modelling for integrated assessment of ...

Abstract: Bioeconomic models can be used to assist producers and decision-makers in identifying optimal production system designs, operation management strategies, and alternative development and...

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Bioeconomic Model of Decision Support System for Farm ...

For such assessments research has proposed the use of methods such as Bio-Economic Farm Models (BEFMs), multi-agent systems, environmental risk mapping, life cycle analysis, environmental impact assessment and agri-environmental indicators, which are each briefly reviewed in Payraudeau and Van der Werf (2005). A BEFM is defined as a model that links formulations describing farmers' resource management decisions to formulations that describe current and alternative production possibilities ...

Assessing farm innovations and responses to policies: A ...

Bioeconomic models consist of the use of mathematics to model the behaviour of biological systems conditioned by biological, environmental, economic and technical factors. At present, market competitiveness in aquaculture is growing steadily and the amount of data that producers have to manage is increasing.

Bioeconomic modelling in aquaculture: an overview of the ...

Data source. The data used to perform the bioeconomic modeling comes from an experimental study conducted in a commercial tilapia farm (Yaxchilam Farm, Yucatan, Mexico) from February 2015 to January 2016 for 330 days (Borrego-Kim et al., 2020). The organisms were obtained from a batch of 100,000 sex-reversed Nile tilapia (*Oreochromis niloticus*) fingerlings (Spring Genetics).

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