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friends and
family to leave
positive
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**Bio-Economic
Models applied
to Agricultural
Systems ...**

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Farm Models To

Systems:
Challenges for
Parameterization
and Validation

Abstract

Bioeconomic farm models have been very instrumental in capturing the technical aspects of human-nature

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interactions and
in highlighting
the economic
consequences of
resource use
changes. They
may

**A Generic Bio-
Economic Farm
Model for
Environmental
and ...**

Although some of

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the model studies claim that their model is easily transferable, no evidence from the literature has been found trying to transfer one model between several locations and farm types. This

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could be due to
on the one hand
these models
being very
specific for a
location or farm
type or on the
other hand
modellers
preferring to
build their own
model rather
than re-using
existing ...

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Bio-economic modeling: State-

of-the-art and

key priorities

This book deals
with MIDAS

(Model of an

Integrated

Dryland

Agricultural

System), a whole-

farm

mathematical

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programming
model of the
agricultural
system of
Western
Australia's
eastern
wheatbelt. MIDAS
is the result of
interdisciplina
ry research and
cooperation over
a period of
years.

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Participants
have included
agricultural
economists,
agronomists,
soil scientists,
animal
scientists,...

**Bioeconomic
modeling of
optimal harvest
time in Nile ...**

Interpretive

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Summary:
Description,
evaluation, and
validation of
the Teagasc Pig
Production

Model. By: Anne
Wallace. In this
study published
in the July 2019
issue of Journal
of Animal
Science, the
Teagasc Pig

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Bioeconomic
Production Model
(TPPM) – a
bioeconomic
farrow-to-finish
pig farm system
model – was
evaluated. The
authors' goal
was to develop
and validate a
pig farm model
specific to the
Irish ...

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

A Bio-Economic
Farm Model
(BEFM) is
defined as a
model that links
mathematical
programming
model
formulations of
farmers'

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resource

Farm Models To

management decisions, to

biophysical

models that

describe

production

processes and

the conditions

of natural

resources for

the farm scale.

Two important

distinctions are

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**Assessing farmer
behaviour as
affected by
policy and ...**

- Modelling a case study farm and bioeconomic simulations enabled in-depth analyses and the

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impact of likely
future scenarios
to be quantified

- FARMAX® whole-farm system platform helped in modelling the physical and financial changes needed to simulate the likely future scenarios at a farm level

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Future dairy

farm systems: a

bio-economic

analysis

Servicios

Personalizados.
Revista

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models have been

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very

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instrumental in

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capturing the

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technical

aspects of human-

nature

interactions and

in highlighting

the economic

consequences of

resource use

changes. They

may elucidate

the tradeoffs

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that farm
households face
in crop choice
and farming
practices,
assess the
profitability
...

**MIDAS, a
bioeconomic
model of a
dryland farm
system.**

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As with forestry models, bioeconomic models of fisheries typically represent changes in fish populations by relatively simple biological growth functions.

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Fishery harvest is proportional to the levels of fish biomass and fishing efforts [Perman et al. 1999]. The economic objective is to determine what fishing efforts maximise profits.

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**From Bioeconomic
Farm Models to
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Agricultural
production has
been indentured
as a major
source of
groundwater and
sediment
pollution in the
western Lake
Erie Basin of

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Ohio. In order to anticipate the effects of potential conservation policies, we employed a bioeconomic model to examine the relationship between alternative tillage practices and

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Systems
environmental
and economic
impacts in the
western Lake
Erie Basin of
Ohio.

**Fisheries
bioeconomics
Theory,
modelling and
management**
2.4. Age-
structured

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structured
Systems consider
factors
affecting
biomass through
time, such as
growth,
recruitment and
mortality, in a
population
homogeneously
distributed in

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space and time.
These models are
based on the
static model of
Beverton & Holt
(1957), and
explicitly
include the age
structure of the
population.

**Bioeconomic
modelling of
male Holstein-**

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Friesian dairy
Farm Models To

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...
A stochastic bio-economic farm model was developed to assess the impact of innovations on pig farm performance. The model accounts for emissions of greenhouse gases

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by using the shadow price of CO₂ and for stochastic prices. The model was used to assess the impact of using co-products in pigs' diets on private and social profits for a typical Brazilian farrow-

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to-finish pig
Farm Models To
farm.

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(PDF)
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**Bioeconomic
modelling and
salmon
aquaculture: An**

...

A stochastic bio-
economic pig
farm model to
assess the
impact of

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innovations on
Farm Models To
improve
farm performance

By Ali BM,

Berentsen PBM,

Bastiaansen JWM,

Oude Lansink A.

Article link

Abstract link.

Year : 2017

Journal :

Animal. Country

: Brazil Species

: Pigs

Management

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system : Farrow-
to-finish Region
: South...

Systems

Interpretive

Summary:

**Description,
evaluation, and**

...

The model
consists of four
sub-models
comprising farm
systems, animal

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nutrition, feed supply and financial components. A schematic diagram of how the different components of the model interact is shown in Figure 1. The farm systems sub-model defines

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the dairy calf-
to-beef
production
system (breed,
gender and
finishing age)
and

**Bioeconomic
modelling:
Integrating
economic and ...**
Classic models
are shown, such

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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

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introductory
version of a
bioeconomic
yield-mortality
model, and
dynamic age-
structured
models.

**Fisheries
bioeconomics
Theory,
modelling and
management**

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Bio-economic farm models are tools to evaluate ex-post or to assess ex-ante the impact of policy and technology change on agriculture, economics and environment. Recently, various BEFMs

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have been developed, often for one purpose or location, but hardly any of these models are re-used later for other purposes or locations. The Farm System Simulator (FSSIM) provides a generic

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framework
enabling ... To

Multi Agent

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2 contents

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products in bio-

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“available data”

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26 indicators
for big regions,
nations or
global level 26
assessment
concerning the
...

**A Stochastic Bio-
Economic Farm
Model for
Brazilian Farrow**

...

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models can be used to assist producers and decision-makers in identifying optimal production system ... into bioeconomic models for salmon farming in Chile include: (1) Alternative ...

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practices and

...

The bio-economic

modeling

approach

presented in

this book is a

result of two

distinct

developments: by

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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

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Systems
conventional
economic models
are not able to
provide.

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