

Does large-scale livestock husbandry have better economic performance than specialized farms?

Our results indicate that large-scale livestock husbandry shows better economic performance but worse environmental consequences than the backyard and specialized farms. In other words, the larger production scale causes better economic benefits and worse environmental consequences.

Does feed cost affect the economic profit of pig husbandry?

The cost of feed accounts for greater than 80% of the total cost for the SF, TF and HTF but 60.1% for the BF. Clearly, the feed cost is the primary factor to affect the economic profit of pig husbandry. The main difference derives from the commercial feeds and soybean meal.

Does large-scale livestock husbandry improve pig production?

In this study, the LCA, EME and ECA methods provide three different but complementary standpoints to compare pig production with different models. Our results indicate that large-scale livestock husbandry shows better economic performance but worse environmental consequences than the backyard and specialized farms.

What is energy assessment of agricultural production system?

Energetic assessment of agricultural production system can embrace different forms of energy account that follow the first and, in some cases, the second law of thermodynamics. Ten approaches are identified and are presented according to the energy accounting: (i) energy, (ii) exergy, and (iii) emergy.

What role does energy play in farm systems?

A review Energy holds a key role in farm systems. Cultivation is based on the conversion of solar energy into biomass of interest. Fossil energy allows mechanized and high-yield agricultural production system, but has a strong impact on climate change, and its supply is compromised in the next decades.

What is the role of energy in agricultural production system?

Energetic assessment of the agricultural production system. A review Energy holds a key role in farm systems. Cultivation is based on the conversion of solar energy into biomass of interest.

The spatiotemporal variation analysis of virtual water for agriculture and livestock husbandry: A study for Jilin Province in China ... land utilization and energy et al. in recent years. The analysis results of Thiel index are shown in Table 1. In agriculture, it can be found that sunflower shows the biggest both inter-regional and intra ...

Mankind has adapted a variety of resources to provide for energy in agriculture. Animal draught power obtained through domestication of cattle, horses and other animals has existed for over 8,000 years, the water wheel is ...

The control variables influencing agricultural energy efficiency were introduced according to the characteristics of Chinese agriculture. (1) The agricultural industry structure was expressed as the proportion of non-cultivation output value to total agricultural, forestry, animal husbandry, and fishery output value in each province and city ...

At the stage of decelerating ascent (2010-2013), the proportion of the added value of agriculture, forestry, fishery, and animal husbandry in the added value of agriculture (c6), pesticide usage ...

India has surpassed China as the world's largest milk producer, accounting for 20.17 % of global milk production. India produces about 5.65 % of the world's eggs, 3 % of the world's beef, and has ...

Agri-food systems (AFS) have been central in the debate on sustainable development. Despite this growing interest in AFS, comprehensive analyses of the scholarly literature are hard to find. Therefore, the present ...

Farm size plays an important role in agricultural economic systems. Real-world evidence suggests that suitable farm size is the key to sustainable agriculture in most countries and that the growth of farm size in the early stages of development is central to rapid economic growth, poverty reduction, and rural development (Timmer, 2014). This has been true for the ...

Here, we define agrivoltaic (AV) systems as the co-location of ground-mounted solar energy development and one or more of the following agricultural activities: crop cultivation ("AV-cropping"), animal husbandry ("AV ...

As one of the new agricultural business subjects, family farms are the main force behind the development of agriculture and the leader of agricultural modernization in China. At present, the development of family ...

Various accounts within the empirical literature of agricultural science treat animal welfare as a sub-part of the concept of sustainability. Due to the limited scope of this article, I can only focus on a few but still revealing publications by the UK Department for Environment, Food and Rural Affairs (DEFRA), the United States Sustainable Agriculture Network (SAN) as well ...

The control variables influencing agricultural energy efficiency were introduced according to the characteristics of Chinese agriculture. (1) The agricultural industry structure ...

Few opportunities exist for all farm type clusters to increase annual dietary energy yield and profit per hectare simultaneously, relative to their ... Feed accounted for most of the animal husbandry costs, especially evident in LG-M clusters due to their higher livestock density (Fig. S2b). ... Multi-scale analysis of agricultural development ...

With the implementation of the rural revitalization strategy and the promotion of agricultural and rural

modernization, the subsidies enjoyed by agricultural enterprises in China are increasing. As a result, the effectiveness of government subsidies for the technological innovation of agricultural enterprises has attracted more and more attention. Based on the perspectives ...

processing machinery, animal husbandry equipment, irrigation and drainage pumps, and plant protection machinery. By the end of 2005, total power reached 685 million kW, including 1.4 million medium- and large-size tractors 15.4 million small-size tractors, and about a half million combine harvesters. China has seen remarkable

5. To provide animal power for farming, better land use pattern the land which is not suited for arable cropping should be brought under fodder production. 6. Creation of thousands of Self-employment opportunities throughout the year by adopting, animal husbandry on large scale for sustainable income of the rural masses of the state.

In developing countries, there are various examples of apps offered by public organizations. The popular Kisan government portal or Kisan Suvidha ([mkisan.gov](http://mkisan.gov)) in India supports mobile apps for agriculture, horticulture, animal husbandry, and other agricultural fields. Kisan Suvidha is a mobile app developed to the farmers collectively by ...

Livestock husbandry in China is rapidly changing in structure from traditional backyard rearing toward large-scale and intensive production. In this study, a joint use of life cycle assessment, energy evaluation and economic analysis provides different but complementary ...

Livestock production is a crucial component of the global food system, providing essential nutrients and supporting livelihoods. This comprehensive review examines the current trends and ...

RWANDA AGRICULTURE AND ANIMAL RESOURCES DEVELOPMENT BOARD (RAB) Huye - Rwanda RAB STRATEGIC PLAN 2020 - 2024 Rwanda Agriculture and Animal Resources Development Board (RAB), P.O. Box 138 Huye or 5016 Kigali-Rwanda, [infos@rab.gov.rw](mailto:infos@rab.gov.rw), August 2020

Therefore, farm management systems, based on the integration of key components of agriculture such as crops, livestock and aquaculture, is the most advanced paradigm of sustainable agriculture.

Agriculture is now in the early stages of another revolution, with data and connection at the centre. Artificial intelligence, analytics, linked sensors, and other developing technologies might boost yields, enhance water and input efficiency, and promote sustainability and resilience in agriculture and animal husbandry.

In the short-run, agricultural growth will not increase energy consumption. This article analyzed the causal link between the growth in agricultural output value and total ...

# Analysis of energy storage and agricultural and animal husbandry profits

Energy, Ecology and Environment - By linking agricultural and livestock products, integrated crop-livestock systems produce economic and environmental benefits. Using ...

This document discusses integrated farming systems (IFS), which combine various agricultural enterprises like cropping, animal husbandry, fisheries, and forestry together. IFS aim to maximize production and income ...

The profitability of listed Chinese agricultural companies lags far behind other A-share listed organizations. The average operating income and total profit of listed companies in agriculture, forestry, animal husbandry, and fishery are only 5.8% and 4.2% of the total average level, respectively.

Therefore, this study was conducted to evaluate the energy balance of crop and livestock production, net energy ratio (NER), and water use efficiency (WUE) of crops of a selected farm in Sri Lanka using the life cycle ...

The model equation is set as formula (6): 
$$e = \frac{C_t - C_0}{C_0} \times \frac{Y_t - Y_0}{Y_0}$$
 where  $e$  is the decoupling index,  $C_t$  and  $C_0$  represent the carbon emissions of AAH in Henan province from the beginning to the end of the year, namely environmental pressure,  $Y_0$  represents the gross agricultural and animal husbandry production ...

Date Name Of Committee Agenda 2025-04-25 : Agriculture, Animal Husbandry and Food Processing Evidence of the representatives of the Ministry of Fisheries, Animal Husbandry and Dairying (Department of Animal Husbandry and ...

Context:. Recently, a regional Review Meeting for the Animal Husbandry and Dairy sector highlighted that the livestock sector is consistently growing at a high Compound Annual Growth Rate (CAGR) of 7.67% during ...

The productive land forces and animal husbandry are reducing in agro-pasture ecotone (APE) areas due to the excessive population density, vulnerable ecological environment, and complex household economy structure; consequently, land degradation in these regions can be significant [1] the agro-pasture ecotone, sustainable agriculture development has been ...

We identified ten energetic assessments of agricultural production systems that are performed to account energetic flows: (i) conventional energy analysis, (ii) pluri-energy ...

The data of rate of scale farming and net profit over 31 provinces in pig industry mainly from China Animal Husbandry and Veterinary Yearbook. Feed day, cost, net profit, epidemic medical investment of different pig farms is from the database of the Ministry of Agriculture and Rural Affairs of the People's Republic of China.

Web: <https://www.fitness-barbara.wroclaw.pl>

