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Total factor productivity is a key measure of the economic performance of agriculture and an important driver of farm incomes. It represents how efficiently the agricultural industry uses the...

Total factor productivity of the agricultural industry ...

This article has estimated and compared agricultural total factor productivity in Australia, Canada and the United States between 1961 and 2006. To do this, a consistent production account for the agriculture sector in all three countries was developed, and a multilateral index was applied to construct comparable price and

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quantity estimates for output and input in each country.

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Growth (or decline) in total factor productivity (TFP) results predominantly from public investment (or lack of investment) in infrastructures (irrigation, electricity, roads) and in agricultural research and extension, and from efficient use of water and plant nutrients. The observed decreases in the rate of increase of TFP are in large part a consequence of a substantial lessening of investments - notably public-sector investments - in India's agriculture.

VI. AGRICULTURAL GROWTH AND TOTAL FACTOR PRODUCTIVITY

This article provides a comparison of levels and growth of agricultural total factor productivity between Australia, Canada, and the United States for the 1961-2006 period. A production account for agriculture that is consistent across the three countries is constructed to estimate output, input and total factor productivity, and a dynamic panel regression is used to link the productivity estimates to potential determinants.

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agricultural total factor productivity index numbers between countries. In contrast to previous studies, both the level and growth rate of agricultural productivity are compared. While Australian agricultural productivity remains below that of Canada

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and the United States, it has been maintained relative to the United States and has

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Increasing the efficiency of agricultural production—getting more output from the same amount of resources—is critical for improving food security. To measure the efficiency of agricultural systems, we use total factor productivity (TFP). TFP is an indicator of how efficiently agricultural land, labor, capital, and materials (agricultural inputs) are used to produce a country's crops and livestock (agricultural output)—it is calculated as the ratio of total agricultural output to ...

Agricultural Total Factor Productivity (TFP), 1991-2014 ...

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(agricultural output)—it is calculated as the ratio of total agricultural output to ...

Agricultural Total Factor Productivity (TFP), 2000-2016 ...

To better understand both the challenges we face and how we can best meet them, the Global Agricultural Productivity (GAP) Report, first published by Global Harvest Initiative and now produced by Virginia Tech, measures our progress toward sustainable agriculture using what it calls total factor productivity, or TFP.

GAP Report: Agricultural Productivity Growth Linked to ...

Agricultural income per annual work unit was -4.6 % lower for the EU-28 in 2018 than the level in 2017 and +19.7 % higher than in 2010. This article is part of a set that is taken from Eurostat's publication Agriculture, forestry and fishery statistics - 2019 edition.

Performance of the agricultural sector - Statistics Explained

This paper uses the index method to measure agricultural total factor productivity (TFP) for China's crop and livestock industries, based on the gross output model from 1978 to 2016. We construct production accounts for the industries using input-output relationships for the 26 main agricultural commodities and commodity groups, which account for over 90 per cent of the total agricultural inputs and outputs.

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Measuring agricultural total factor productivity in China ...

Comparing Australia's agricultural productivity performance with that of other countries is a useful way of understanding our international competitiveness.

International comparisons - Department of Agriculture

TFP takes into account all of the land, labor, capital, and material resources employed in farm production and compares them with the total amount of crop and livestock output. If total output is growing faster than total inputs, then the total productivity of the factors of production (i.e., total factor productivity, or TFP) is increasing.

USDA ERS - International Agricultural Productivity

The principal differences are (i) the Agricultural Productivity in the U.S. data product uses prices received by U.S. farmers to measure output growth, whereas the IAP data product uses global average agricultural prices to aggregate output; (ii) in the Agricultural Productivity in the U.S. data product, agricultural labor is quality-adjusted by labor's demographic characteristics—including sex, age, educational attainment, and employment class, whereas the IAP data product uses a ...

USDA ERS - Documentation and Methods

The related input and output data of each country from 1961 to 2012, which

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covers the era of Green Revolution and trade liberalization, are from the Food and Agriculture Organization of the United Nations (FAO). Sequential DEA and Malmquist TFP Indices Traditionally, total factor productivity change can be estimated by growth accounting formula—which is the residual value of output growth minus the sum of input growth times the input share.

Agricultural Total Factor Productivity Performance in Asian

Abstract. This paper uses the growth accounting approach to estimate total factor productivity in the Australian agriculture industry between 1949 and 2012. To shed light on an unresolved debate on quantifying the roles of capital and labor, we compare the “ex-ante” and “ex-post” approaches to the estimation of returns to capital and labor, and find the former performs better than the latter in the context of the agricultural production account.

Measuring Output, Input and Total Factor Productivity in ...

The approach taken uses neoclassical growth accounting in defining total factor productivity (TFP) growth as the ratio of output and input growth. There are three distinctive periods in the performance of South Africa’s agricultural sector. The first period, from 1961 to 1980-1981, is one of sustained growth in output driven by growth in input.

South African agricultural productivity in the global ...

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These concerns are heightened by decreasing marginal returns to capital and tightening agricultural land supply throughout the world. To gather more empirical evidence on this issue, this article calculates and compares total factor productivity (TFP) levels and growth rates between Australia, Canada and the United States for the 1961-2006 period.

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- This paper aims to measure and compare agricultural total factor productivity (TFP) growth in China and India and relates TFP growth in each country to policy milestones and investment in agricultural research., - TFP is measured using a non-parametric Malmquist index which allows the decomposition of TFP growth into its components: efficiency and technical change., - Comparing TFP growth in China and India it is found that efficiency improvement played a dominant role in promoting ...

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