

## Comparing Agricultural Total Factor Productivity Between

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### Comparing Agricultural Total Factor Productivity

Total factor productivity is measured as the ratio of total output ( $Y$ ) to total input ( $X$ ) and its growth is measured as the difference between output and input growth rates (estimated using logarithmic differentials).  $\frac{\dot{Y}}{Y} - \frac{\dot{X}}{X}$

### Comparing agricultural total factor productivity between ...

Downloadable! 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 ...

### Comparing Agricultural Total Factor Productivity between ...

One of the most informative measures of agricultural productivity is total factor productivity (TFP). 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.

### USDA ERS - International Agricultural Productivity

One of the most informative measures of agricultural productivity 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 and the United States, it has been maintained relative to the United States and has

### Comparing agricultural total factor productivity between ...

agricultural total factor productivity index numbers between countries. 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 quantity estimates for output and input in each country.

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### Measuring agricultural total factor productivity in China ...

The Chinese agricultural sector has experienced a substantial increase in total output since dramatic reforms were introduced in 1978. 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 agricultural growth and total factor productivity Agriculture - world-wide - is a vital determinant of the livelihoods of small-holder farmers and rural communities. Agricultural growth - throughout global history - has been the pro-genitor of broad-based economic growth and development, as linkages between farm- and non-farm economies ...

### VI. AGRICULTURAL GROWTH AND TOTAL FACTOR PRODUCTIVITY

Productivity and Agricultural Output Growth Vary Across Country Income Groups. Another view of agricultural output and productivity performance is given in the figure below, which shows trends in agricultural output and input use from 1961 to 2016 for countries grouped by their 2017 per capita income level (as classified by the World Bank).

### USDA ERS - Summary Findings

Comparing Australia's agricultural productivity performance with that of other countries is a useful way of understanding our international competitiveness. Agricultural productivity differences between countries reflect physical, climatic, geographic, economic and policy differences. These factors determine the inherent suitability of a country for agricultural production and have a strong influence on the structure of agricultural industries.

### International comparisons - Department of Agriculture

Total factor productivity (TFP) is a crucial measure of efficiency and thus an important tool for policymakers. However, research on comparison of TFP performances using micro-level data across developing countries has been limited due to the unavailability of homogenous data sources.

### A cross-country analysis of total factor productivity ...

Improvements in agricultural total factor productivity (TFP) are not only important for the viability of the agricultural sector, but are a fundamental precondition for sustainable economic growth. TFP, also known as multi-factor productivity, is a measure of the increase in outputs not accounted for by growth in production inputs.

### Network on Agricultural Total Factor Productivity and the ...

We measure and compare agricultural total factor productivity (TFP) growth and its components (efficiency and technical change) in China and India and test the TFP series for the existence of structural breaks relating the evolution of TFP to policy milestones.

### Comparisons of agricultural productivity growth in China ...

- 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 ...

### The total factor productivity in China and India: new ...

Figure 1 Total factor productivity (cropping specialists) and average winter rainfall, 1988–89 to 2018–19 Source: Author's estimates and ABARES farmpredict model (Hughes et al. 2019) Recent drought conditions across much of eastern Australia have contributed to short-term declines in agricultural productivity.

### Agricultural productivity estimates - Department of ...

$\frac{dTFP}{TFP} = \frac{dY}{Y} - \sum \alpha_i \frac{dX_i}{X_i}$  which simply states that, for small changes, the rate of change in TFP is equal to the difference between the rate of change in aggregate output and the rate of change in aggregate input. TOTALFACTORPRODUCTIVITY IN THEGLOBALAGRICULTURALECONOMY67.

### Total Factor Productivity in the Globalotal Factor ...

Katsunobu Kondo, Linxuan Hu, Daisuke Sawauchi, Yasutaka Yamamoto. Total Factor Productivity of China's Agriculture under Data Availability Limitation: Case Study of Cotton Production. Journal of Rural Problems, 10.7310/arfe.54.82.54\_3\_(82-87). (2018).

### The Creation and Spread of Technology and Total Factor ...

Total factor productivity (TFP) has been shown to contribute significantly to output growth in the Thai agricultural sector and its contribution was substantially greater than in the non-agricultural sectors (Tinakorn and Sussangkarn, 1996, Chandrachai et al., 2004; Warr, 2006). However, there is limited empirical evidence as to what

### Total Factor Productivity in Thai Agriculture Measurement ...

According to data from national income and product accounts, this "agricultural productivity gap" is around a factor three on average, and even higher in developing countries. These large agricultural productivity gaps suggest important implications for understanding aggregate productivity.

### The Agricultural Productivity Gap

mance of the U.S. farm sector was driven mainly by productivity growth, at an annual rate of 1.42 percent (as measured by total factor productivity (TFP)—output per unit of total inputs). Changes in input use. Though total annual use of agricultural inputs changed little since 1948.

### Agricultural Productivity Growth in the United States ...

\* Total factor productivity of the agricultural industry in the United Kingdom is estimated to have risen by 6.0% between 2013 and 2014. This follows two years of poor productivity when bad weather conditions affected production. Compared to 2011 productivity is up by 1.7%.