



Document details

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Value evaluation on the ecosystem services of rice-duck ecological management with no-tillage.

Authors

Zu ZhiBo; Huang Huang

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An economic evaluation was conducted of the ecosystem services of different rice-duck farming systems. Results show that the value of the ecosystem services of duck raising combined with no-tillage rice cropping is 22 080.28 yuan/hm², which is 54.83% higher than that of no-tillage cropping patterns with no duck raising and 73.92% higher than that of tillage cropping patterns with no duck raising. The ecosystem service values of rice-duck farming systems are as follows: 10 198.70 yuan/hm² for material production function; 9521.92 yuan/hm² for atmosphere adjustment function; 871 yuan/hm² for water-saving function; 87.33 yuan/hm² for nutrient-retaining function; and 641.33 yuan/hm² for water conservation function.

About this document

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Organism descriptor

ducks

Oryza

Oryza sativa

Descriptor

cropping systems

economic evaluation

ecosystems

farming systems

mixed farming

no-tillage

poultry

poultry farming

rice

valuation

Identifier

agricultural systems

domesticated birds

no-tillage systems

paddy

**People's Republic of
China**

zero tillage

Broad term

Anatidae

Anseriformes

birds

vertebrates

Chordata

animals

eukaryotes

Poaceae

Cyperales

monocotyledons

angiosperms

Spermatophyta

plants

Oryza

APEC countries

Developing Countries

East Asia

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Abstract

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