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【**Article**】

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**Economic Evaluation and Conditions for Spread of No-puddling Rice Cultivation:**

Title: Centered

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**A Case Study on Tohoku, JAPAN**

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Taro TOHOKU（Tonpei University）

Author’s name and Affiliation: Centered

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Hanako KEIZAI（Tonpei Agriculturalsource）

Kenichi GAKUAI（Tonpei University）

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This paper aims to evaluate the economic efficiency and to clear the condition to spread of the no-puddling rice culti-

Summary: Justified

Approximately 300 words

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vation. In order to make ･･･････････････････････････････････････････････････････････････････････････

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Key words；Economic Evaluation and Conditions, No-puddling Rice Cultivation

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**１．Introduction**

　Developed countries such as EU, US, Australia, and Japan have experienced considerable structural changes in agriculture over the past decades. (Eastwood et al., 2010).

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**２．Background**

　１）Historical background

　(1) Rice Cultivation in Japan

① Rice Cultivation in Tohoku

　Figure 1 shows the evolution of the abandoned farmland1).

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**Figure 1 Ratio of abandoned farmland area（2015）**

Note：2015 Census of Agriculture and Forestry．

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**３．Data**

　We use exhaustive farm household-level data from the Census of Agriculture and Forestry for the years 2010 and 2015. The pattern of exit in our sample is summarized in Table 1.

**Table 1 Characteristics of the surveyed farmers**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Sex | Age | Exit year |
| 1 | M | 68 | 2011 |
| 2 | F | 70 | 2014 |
| 3 | M | 80 | 2013 |
| 4 | M | 77 | 2012 |
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| 8 | N | 79 | 2009 |

Note：2015 Census of Agriculture and Forestry．

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**Notes**

1. The community-level data aggregated by farm household-level data from the Census of Agriculture and Forestry are available before 2000.

References: List all references alphabetized by authors’ last names

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Notes: Times New Roman 9.5 pt

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**References**

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要旨：農業水利施設（以下，「水利施設」と略す）は「田」を・・・・・・・・・・・・・・・・・・・・・

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キーワード：水利施設，△△△，□□□

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