

## Strengthening the Farmers' Intellectual Capital of Kebumen Ongole Grade Cattle Related to Livestock Productions to Face the Industrial Revolution Era 4.0

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| <b>Abstract</b>     | Intellectual capital is the farmers' intangible asset related to human, relational and structural capital. Human capital is in the form of knowledge and skills; relational capital is the ability to interact with markets, consumers, and others; while structural capital is the ability to develop innovations and to manage the household organizations. This research aims at identifying the farmers' intellectual capital of Kebumen Ongole grade cattle related to the livestock productions and analyzing the factors strengthening the farmers' intellectual capital. The survey was conducted on 147 farmers of Kebumen Ongole grade cattle through a multistage sampling method. The obtained data were then analyzed using the descriptive statistical and spearman ranking correlation test. The results showed that the farmers have already had adequate intellectual capital with the score of 116.92. The farmers' ability related to information access and education are important factors to strengthen the farmers' intellectual capital ( $P < 0.01$ ). The farmers' ability to access information and education are considered essential in order to strengthen the farmers' intellectual capital. |
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