

## The Impact of Internet Use on Farmers' Resource Utilization of Livestock and Poultry Waste in China

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**Abstract :** Maximizing the utilization of livestock and poultry waste (LPW) is of crucial importance to the effective supply of livestock products and the improvement of rural residents' living environment. This study used an endogenous switching probit model to investigate the effects of Internet use on farmers' resource utilization of LPW based on survey data from 583 Chinese farmers. Results indicate that Internet use significantly improves farmers' resource utilization of LPW. Under the counterfactual scenario, for farmers using the Internet, the probability of choosing resource utilization of LPW would decrease by 23.6% if the Internet is not used. Conversely, for farmers not using the Internet, the probability of choosing resource utilization of LPW would increase by 32.2% if the Internet is used. The robustness check using the conditional mixed process model reconfirms that Internet use can improve farmers' resource utilization of LPW. Heterogeneity analysis reveals that women and older farmers benefit more from the use of the Internet. Furthermore, Internet use promotes farmers' utilization of LPW by increasing individual environmental awareness and technical cognition. Our findings advocate for policies that improve livestock and poultry manure management, promote public environmental and technical cognition, and strengthen the construction of rural Internet infrastructure.

**Keywords :** livestock and poultry waste, Internet use, endogenous switching probit model, China

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