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Information Technology Payoff: A Panel Data Application to Swine Farm in Korea

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42

Information Technology Payoff: A Panel Data Application to Swine Farm in Korea

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This paper intends to verify IT payoff using swine data from Korean farms. We collected productivity data from a MIS database of 120 farms. We have applied the panel data methods to estimate the productivity gains after MIS adoption. The results support positive IT payoff after IT adoption. Productivity of Korean sow has increased after adoption of an Information System. Farm size has positive IT impact on productivity, but the impact is not statistically significant. Time has positive and significant impact on productivity, thus implying Korean swine farms noticed serious gain in productivity after IT adoption. Our findings explain the differential impact of IT adoption on industry by the time of use and size of business.