

RISKS IN SWINE THERMAL COMFORT: A proposed risk map

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Introdução

Pig production is subject to various factors that limit production efficiency, with climate being a key factor among them. In this perspective, the management activity of pig producers is highly complex. With all this complexity, an area that can offer significant support in the decision-making process of pig producers is risk management. Research in this area is abundant but directed to specific fields. This research aimed to develop an innovative tool for identifying risks, the Risk Map in Swine Thermal Comfort.

Problema de Pesquisa e Objetivo

Research on risk management is abundant, but it is directed towards specific topics. However, research focused on risk management in pig farming with an integrative approach is a field that has been little explored. The purpose of this research was to create a tool that guides producers in identifying risks related to the thermal comfort of pigs, adopting a constructivist approach with the creation of a new model based on an extensive literature review and empirical data.

Fundamentação Teórica

The theoretical background includes: Animal welfare; Animal ambience; Physiology and thermal balance in pigs; Environment; Risk; Risk management

Metodologia

After the development of a pig farming risk map based on an in-depth literature review, brainstorming meetings were held to identify risks that negatively affect pig thermal comfort. The risks were analyzed and grouped by similarity, and the risk map was tested and validated with a group of professionals from the pig production system in Brazil. The enhanced tool was subsequently tested on a farm with over 50,000 animals.

Análise dos Resultados

Key results: The result is the Risk Map in Swine Thermal Comfort, an important tool that will guide producers in identifying factors that may represent risks in the thermal comfort of animals.

Conclusão

This research has unveiled an innovative proposal for risk identification by presenting the Risk Map in Swine Thermal Comfort, an important tool that will guide producers in identifying factors that may pose risks to animal thermal comfort.

Referências Bibliográficas

<https://doi.org/10.4060/cb9427en>, <https://doi.org/10.1152/physrev.1986.66.2.235>,
<https://doi.org/10.1590/S0100-69162009000300002>, <https://doi.org/10.1108/JMTM-11-2012-0105>.