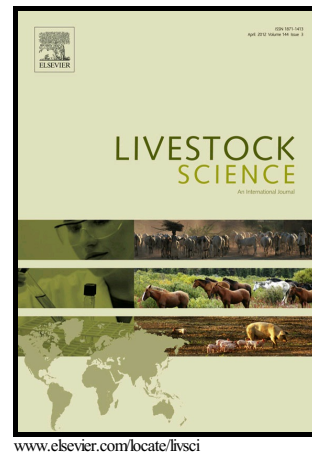


Author's Accepted Manuscript

The effect of farrowing duration on maternal behavior of hyperprolific sows in organic outdoor production

Cecilie Kobek Thorsen, Sarah-Lina Aagaard Schild, Lena Rangstrup-Christensen, Trine Bilde, Lene Juul Pedersen



PII: S1871-1413(17)30249-4
DOI: <http://dx.doi.org/10.1016/j.livsci.2017.08.015>
Reference: LIVSCI3281

To appear in: *Livestock Science*

Received date: 3 January 2017
Revised date: 15 August 2017
Accepted date: 17 August 2017

Cite this article as: Cecilie Kobek Thorsen, Sarah-Lina Aagaard Schild, Lena Rangstrup-Christensen, Trine Bilde and Lene Juul Pedersen, The effect of farrowing duration on maternal behavior of hyperprolific sows in organic outdoor production, *Livestock Science*, <http://dx.doi.org/10.1016/j.livsci.2017.08.015>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting galley proof before it is published in its final citable form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

The effect of farrowing duration on maternal behavior of hyperprolific sows in organic outdoor production

Cecilie Kobek Thorsen^{a*}, Sarah-Lina Aagaard Schild^a, Lena Rangstrup-Christensen^a, Trine Bilde^b and Lene Juul Pedersen^a

^aDepartment of Animal Science, Aarhus University, DK-8830 Tjele, Denmark

^bDepartment of Bioscience, Aarhus University, DK-8000 Aarhus C, Denmark

*Corresponding author: *E-mail address:* cecilie.thorsen@anis.au.dk (C.K. Thorsen).

Abstract

Prolonged farrowing duration has previously been related to hypoxia, stillbirth and poor sow health *post partum* (*pp*). A difficult farrowing may affect sow behavior through exhaustion, sickness or pain and thus constitute a risk for sub-optimal maternal behavior. The aim of the present work was to study if the duration of farrowing in an organic sow herd affected sow postural changes, carefulness of lying down and nursing behavior relevant for early piglet mortality. Thirty-eight sows and their piglets housed in individual paddocks with an A-frame hut were video recorded from the day of farrowing and the following 72h. The average farrowing duration till the last live born piglet was $7.5 \pm 7h$ (2.1-28.9h). The only effect found of farrowing duration was a 22 ± 10 minutes reduced latency to leave the hut after birth of the last live born piglet when the farrowing increased with one hour. Other results showed normal, passive sow behavior with increasing activity as days past post partum (*pp*). Despite a large range in

Download English Version:

<https://daneshyari.com/en/article/5542896>

Download Persian Version:

<https://daneshyari.com/article/5542896>

[Daneshyari.com](https://daneshyari.com)