



Nutrition and management of the prolific sow



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The modern sow is a highly prolific animal and can be seen as a top athlete and needs to be managed and fed accordingly. Two of the most important phases in a piggery are gilt selection and management, followed by wean to service interval and more specifically mating.

The gilts are the future of the herd and provide the genetic improvement for the future. Gilts being selected on farm, should be fed and managed separately from the growing herd already from 10 weeks of age.

The general targets for first insemination are between 32 and 34 weeks old, with a body weight of 135 to 150 kg and inseminated at 2nd or 3rd heat. This can differ slightly for the different genetic lines.

The reproductive performance of the gilts will be the indicator if all practices are being done correctly and timeously.

Within the sow reproduction system, there are four main phases namely: Wean to service interval, gestation period, transition period and lactation period.

Wean to service interval

By feeding high amounts of glucose during this period a flushing effect can be obtained, resulting in an insulin spike, stimulating better follicle and oocyte development and growth.

The additional glucose can either be fed as a top dress or as component of a dedicated mating ration.

The positive influences of this is a reduction in the wean to service interval, improved heat expression and a potential increase in litter size.

Gestation period

During the gestation period, sows have to recover from body condition and weight loss during lactation and embryonic survival and growth of the fetuses should be maximised. This can be achieved with the correct, farm specific feeding schedule, with focus on body condition and feeding levels.

During the first 30 to 60 days post mating, the losses during lactation should be addressed and corrected. Once this has been done and the sow herd is more uniform, management of the sows becomes easier.

While the sows are in crates they can be managed individually but as soon as they are placed into group housing, they are managed in groups.

Sows should be managed so that they do not become over-conditioned, as fat sows usually have trouble farrowing and do not eat well during lactation. Consequently,

