

THE PASSIONATE PURSUIT of lactating sows feeding.

PERFORMANCES

SOLO

gestal

WORLD BEST LACTATING SOW Feeding System

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ENJOY THE GESTAL SOLO EFFECT!

Improving sow's body condition and milking capacity by offering multiple meal during the day in order to increase sow's daily feed intake.

The Gestal Solo is monitoring and analyzing your sow consuption data and is generating numerous reports!



PIG FARMS REVENUS ARE STARTING UNDER THE SOW: THE LACTATION PERIOD IS CRUCIAL

Genetic improvement for both weight gain and lean has resulted in either a reduction in the sow appetite or intakes have not increased in the same proportion as their energy requirement.

Source: Aherne 2001; Noblet et al. 1998

The Role Of Genetics: Lean Growth And Pork Quality

Over the next five years there can be little doubt that the pig industry will continue to compete on the efficient production of quality lean at minimum cost. Past genetic improvement programmes have been very successful in reducing backfat and improving feed conversion. For the future there are two main genetic challenges. The first is to maintain the improvement in feed conversion as backfat levels decline.

John Webb Cotswold Pig Development Company Limited, UK

Taking control of feed conversion ratio

Between 60 and 80% of the cost of production are feedstuffs and typically around two to three kilogrammes of feed results in a kilo of animal body weight gain. The closer this is to 2 kg the better – or lower – the FCR is. If the FCR is 2.0 then it takes 2 kg of feed to take a pig from 30 to 31 kg liveweight for example, as opposed to a 3.0 ratio where it takes 3 kg of feed to achieve the same 1 kg of body weight gain and the associated higher feed bill.

April 2009 - By Dr Mike Varley, Consultant to SCA NuTec, Dalton, North Yorkshire, UK

Today's sow have loss appetite

Genetic capacity for high piglet survival and growth rate combined to the selection for larger litters increases the demands on sows during lactation. Therefore, they lose more weight. (Grandinson et al. 2005)

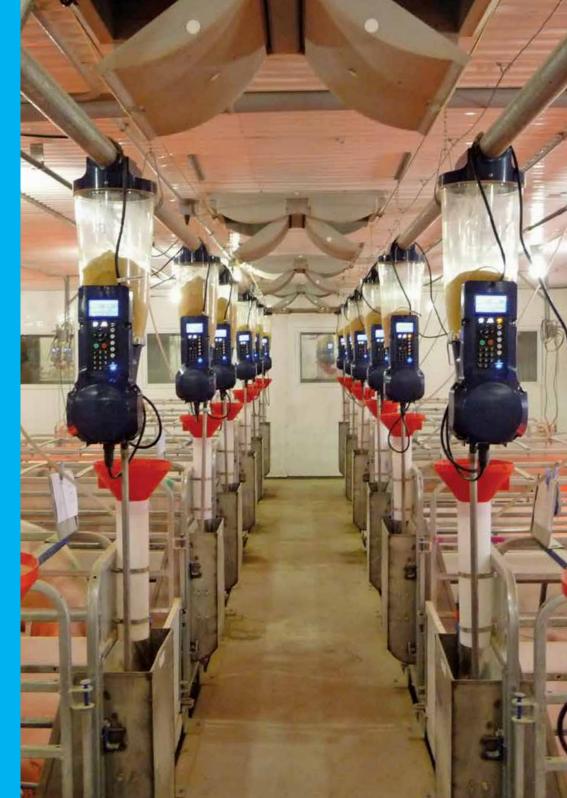
In many breeding programmes in which young pigs have been selected for leaness while fed ad libitum, appetite has decreased.

Luigi Fancitane, Allan L. Schaefer «Welfare of pigs From birth to slaughter, p. 252, 253

YOU ARE NEVER ALONE WITH GESTAL SOLO

Feed frequently to individual sow appetite throughout lactation. « An increase in average feed intake of 1 kg/day can improve piglet wean weight by 0.25 kg and next litter size by at least 0.5 piglet. »

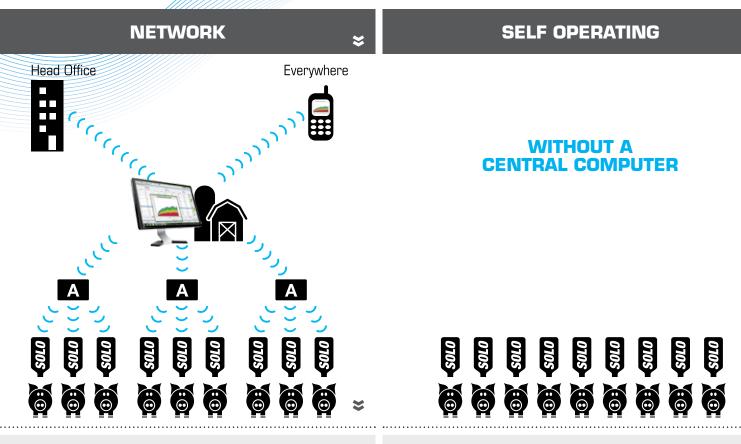
Dr. Brian Hardy, NutriVision Inc.



NO WEEKENDS, NO HOLIDAYS, NO DAYS OFF! GESTAL SOLO WORKS 24/7, YEAR-ROUND!



2 SIMPLE WAYS OF OPERATING





Individual or herd's data collection and daily statistics

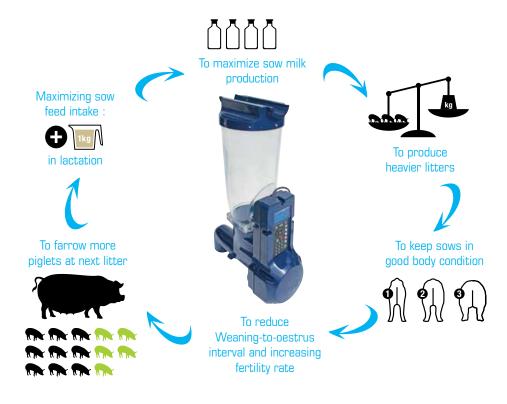
Individual data collection and daily statistics

*



6

MAXIMIZING YOUR SOWS FEED INTAKE IN LACTATION TO REACH THEIR GENETIC POTENTIAL



«To take up successfully the challenge of keeping a sow in good condition, everything must be done to maximize lactation feed intake for the whole lactation length.»

Source: (Goodband and al., 2006)



Meeting the feed needs of the lactating sow

Good feed intake by sows in lactation is vital to support milk production without weight loss.

By Peter Best, wattagnet.com 01-14-2009

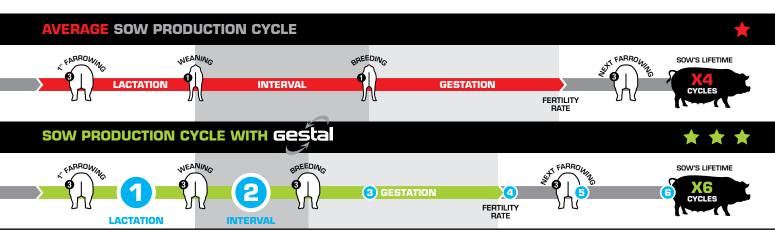
Impacts of feeding practices

Feeding system considerations must start with frequency and the general acceptance that multiple (three times or more) is preferable to giving the feed once or twice daily.

Without question, the sow that eats less while in the farrowing house is a candidate for more reproductive problems in the next cycle, primarily due to the loss of body tissue.

By Peter Best, wattagnet.com, 01-14-2009

ARE YOU REACHING YOUR SOWS GENETIC POTENTIAL?



LACTATION

INCREASED FEED INTAKE = MORE MILK = HEAVIER PIGLETS AT WEANING

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ARROW,

Source	kg/day/litter
Clowes, E.J. et al. 1998 j. Animal Sc. 76	0,230
Whitemore, C. T., The Science and Practice of Pig Production 1996	0,350
Matzat, P. T., et al. 1990. Michigan State	0,300
Pig International 2001. Mavromichalis, 1.	0,250
Pig International 2001. Provimi U.S.A. (graphique 3)	0,370
Average	0,300 kg/day/litter

(EFFECT OF AN ADDITIONNAL 1 KG OF FEED INTAKE PER DAY)

« The piglet growth rate is dependent on the milk yield and its composition. It takes approximately 4 grams of milk to produce 1 gram of weight gain. The required milk yield is therefore 10 kg/day to achieve a litter weight gain of 2.25 kg/day (10pigs growing at 250 g/day). »

Source: Dr. Brian Hardy - NutriVision Inc.

INTERVAL

INCREASED FEED INTAKE IN LACTATION MEANS SHORTER WEAN-TO-OESTRUS INTERVAL

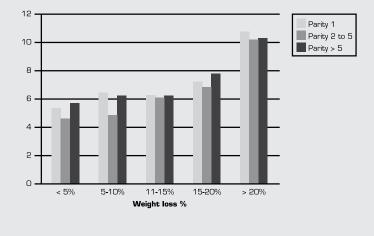


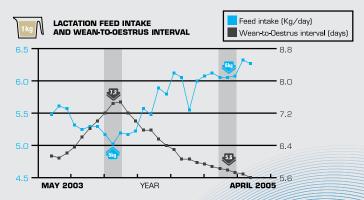
In 2005, Thaker and Bilkei published in the Animal Reproduction Science Journal a study exploring the effects of weight loss during lactation on subsequent performance. They established that as weight loss increases wean-to-estrus interval lengthen. From a 5 days interval for a weight loss of 5% or less, it gets to 10 nearly 11 days when weight loss reached 20% and more (Thaker, 2005). Moreover, the variability of the intervals is more and more noticeable as weight loss increases (Thaker, 2005).

Source: Thaker, M.Y.C., Bilkei, G. (2005). «Lactation weight loss influences subsequent reproductive»

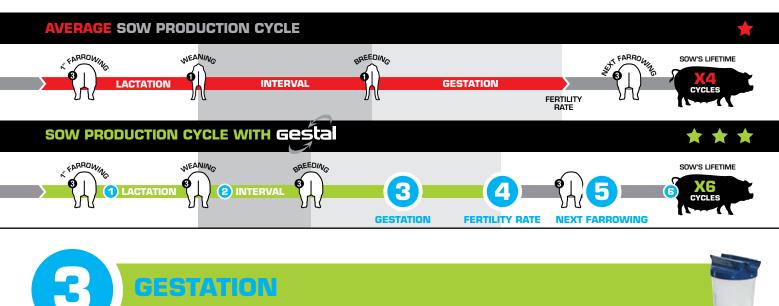
Successful feeding management of sows during lactation could be summarized as «maximize feed intake». Positive consequences of maximizing lactation intakes on lean and prolific genotype, including improved wean to service interval, farrowing rate and subsequent litter size, have been observed in numerous research and commercial production systems.

Source: Goodband & al., 2006



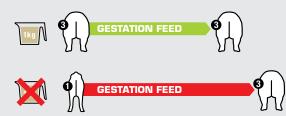


ARE YOU REACHING YOUR SOWS GENETIC POTENTIAL?



REBUILTING YOUR SOWS BODY CONDITION IN GESTATION CAN BE QUITE COSTLY!

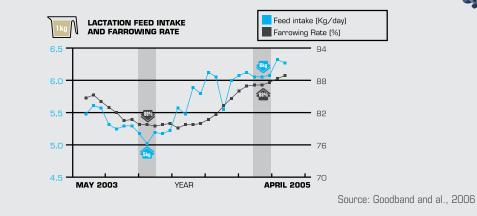
It costs a third as expensive to keep a sow in good body condition during lactation



... than it costs to bring her back in good condition during gestation.

Source: W. H. Close, Close Consultancy, 2004

FERTILITY RATE THERE IS A DIRECT RELATION BETWEEN SOWS FEED INTAKE IN LACTATION & FERTILITY RATE!



NEXT FARROWING

AN INCREASE OF FEED IN LACTATION MEANS MORE PIGLETS NEXT PARITY.

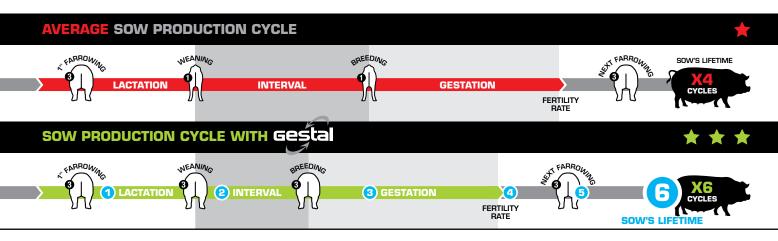


%

LACTATION FEED INTAKE AND BORN ALIVE Feed intake (Kg/day) Born Alive 12.2 6.0 11.5 10.8 5.0 4.5 MAY 2003 YEAR APRIL 2005 9.4

Source: Goodband and al., 2006

ARE YOU REACHING YOUR SOWS GENETIC POTENTIAL?



SOW'S LIFETIME

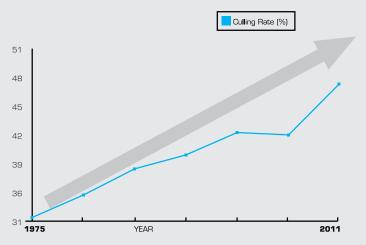
YOUR CULLING RATE HAS INCREASED? SOWS LIFETIME CAN BE INCREASED BY A SUPERIOR FEED INTAKE IN LACTATION!

« To maximize the longevity of these sows, management must use a feeding strategy that maximizes feed intake during lactation and minimize the loss of body stores of energy and protein. »

Source: Dritz, Tokach, Goodband, Nelssen, KSU

« A decreased removal rate of sows reduces the costs for replacement gilts and thereby increases net income. Studies have shown that it takes at least three litters before a sow provides a positive cash flow for the producer. »

Source: Lucia et al., 2000; Stalder et al., 2003



Source: W. H. Close, Close Consultancy, 2004

BENEFITS OF AN INCREASE OF YOUR SOWS DAILY FEED INTAKE

BASED ON AN INCREASE OF 1 KG OF DAILY FEED INTAKE IN LACTATION

GOOD LACTATING SOWS FEEDING MANAGEMENT WILL PROVIDE:



WHAT EXPERTS SAY...

To maximize the longevity of [lactating] sows, management must use a feeding strategy that maximizes feed intake during lactation and minimizes the loss of body stores of energy and protein. The impact of feed intake during lactation on subsequent reproduction increase as weaning age decreases. As weaning age is reduced, increased feed intake during lactation is associated with a greater improvement in farrowing rates. [...] The most practical method of increasing energy intake is to increase total food consumption.

Sows should always have access to fresh feed to **maximize milk production** and subsequent reproductive performance.

Source: Feeding Management During Sow Lactation. Steve S. Dritz, DVM, PhD; Mike D. Tokach, PhD; Robert D. Goodband, PhD; Jim L. Nelssen, PhD. Kansas State University.

Each individual lactating sow is different and applying general rules to individual animals will generally be less than satisfactory.

Source: Feeding the lactating sow: a blend of science and practice. Aherne, Frank. International Pigletter, September, Vol.21, No.7 & October No.8., 2001.

(if increasing daily feed intake of one kg)

EFFICIENCY, SIMPLICITY AND INGENUITY IS TRAVELING.

The Gestal is now available worldwide.

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In Spain



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In Great-Britain

Jyga Technologies innovates continuously in order to conceive state-of-the-art technologies allowing your farm to be ONE OF THE MOST PRODUCTIVE.

Jyga Technologies' professional team has deep knowledge in lactating sows feeding management. Our decade-long experience from research and observations allows us to develop efficient solutions to improve lactating sow feed intake and therefore offering you unique and competitive products. The Gestal system will allow you to reach the maximal potential of your sows, with minimal man-power.

The multidisciplinary team of the company is in constant R&D process. It benefits from an important research farm, with more than 2000 sows finishing over 60 000 hogs annually in Canada.

Jyga Technologies' plant allows the company to market unique management tools to optimize pork producer's talent, productivity and financial income.





In Belgium

In Russia





In Canada













WHERE LACTATING SOWS FEEDING SYSTEMS WERE BORN AND BRED!





Innovation Prizeat at the AgroFarm Russia, May 2010



F.X. Aherne prize for Innovative Pork Production Banff, Canada, January 2010



Innov'Space France, September 2009



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