

Get off to a good start with smart backfat scanning

Fokus 35
15. March 2022
Anne Priebe



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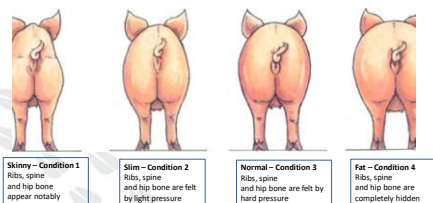
Porcus would like to help you get going...

- The breeding has changed to a far higher productivity than before, but the durability of sows has gone in oppsite negative direction
- Backfat scanning is a really good tool to focus and work more goal-oriented with condition regulation
- You get:
 - Less deviation in condition
 - Better durability of the sows
 - Lower and more constant feed consumption = large savings on feed with the prices we have at the moment!!
- Correct condition regulation has a great impact on the output and thus economy of the herd!



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Classic estimate of condition



Skinny - Condition 1
Ribs, spine and hip bone appear notably

Slim - Condition 2
Ribs, spine and hip bone are felt by light pressure

Normal - Condition 3
Ribs, spine and hip bone are felt by hard pressure

Fat - Condition 4
Ribs, spine and hip bone are completely hidden



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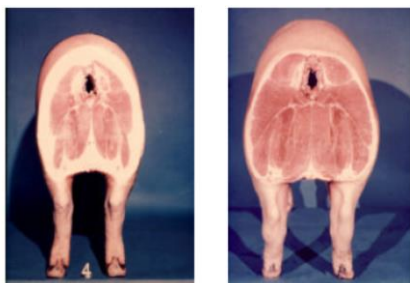
Subjective estimate is subjective!



The Difference Between Women & Men



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Choice of scanner?

Here Renco Leanmeter, serie 12 (4-35 mm, 0,16-1,3 accuracy)



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Where and how?



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Video, huldscanning

[Huldscanning - SEGES TV](#)

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Registration of backfat scanning

Table for Sows				Table for gilts			
Efter fravænning		28 dage efter		Start Altræsyt		Insemnering	
So	Rygspæk	So	Rygspæk	So	Rygspæk	So	Rygspæk

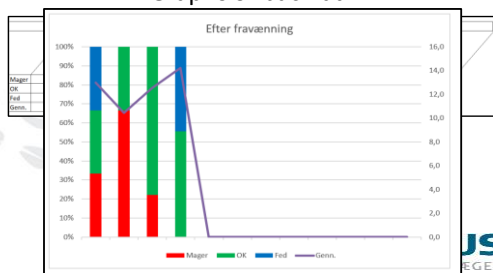
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Registration of backfat scanning

Table for Sows				Table for gilts			
Efter fravænning		28 dage efter læbning		Føl føring			
So	Rygspæk	So	Rygspæk	So	Rygspæk	So	Rygspæk
1234	10						
2345	12						
3456	15						
4567	11						
5678	13						
6789	16						
7890	9						
8901	14						
9012	17						

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Graphs of backfat



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SEGES backfat graphs and feeding curves Sows

Rygspæk ved fravænning	Dag 0-30 efter ins.	Rygspæk 4 uger efter ins.	Dag 30 - dag 84	Dag 84 - dag 112
Mager > 12 mm	4,5 FE	> 30mm		
Middelt: 12-14 mm	3 FE	4 mm		
Fed > 14 mm				

REMEMBER to follow up on those feeding allocations you make in the individual groups of sows
Different feeding systems also mean different adjustments and modifications

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SEGES backfat graphs and feeding curves Gilts/First parity sows

90-145 kg	Flushing	Rygspæk ved ins.	Dag 0-30 efter ins.**	Rygspæk 4 uger efter ins.	Dag 30 - dag 84	Dag 84 - faring ***	Rygspæk ved faring
2,9 FE	3,5 FE	Mager <12 mm	2,4 FE	<12 mm	2,5-2,7 FE	3,3 FE	
2,9 FE	3,5 FE	Middel 14-15 mm*	2,4 FE	14-15 mm	2,3 FE	3,3 FE	14-17mm
2,9 FE	3,5 FE	Fed: >16 mm	2,4 FE	>16 mm	2-2,1 FE	3,3 FE	



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It all begins with the gilts – we want to avoid this!



- Important to hit correct weight and age of the gilts (polte)
- Purchase of correct number of gilts of the correct age groups.



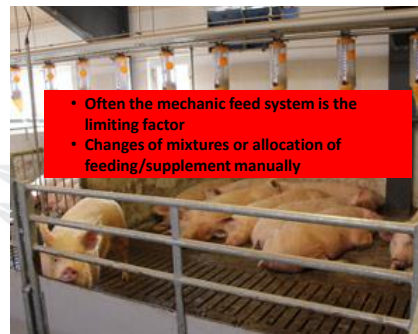
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Feeding of gilts (polte)

- Optimum with 3 different feed mixtures:
 - From 30 to 110 kg (in gilt's quarantine)
 - Optimum with 2 mixtures: one from 30-65 kg and one from 65-110 kg
 - Low growth, good health of intestines and good durability
 - From 110 kg until insemination (in sow herd):
 - Fat on the animals for the last weeks



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- Often the mechanic feed system is the limiting factor
- Changes of mixtures or allocation of feeding/supplement manually



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We should consider the flow of gilts (polte)

- The size of the quarantine is a factor
- PRRS status – is a single or double 12'er used
- Number of gilts and their weight in and out of the quarantine
- How large is the difference of ages?
 - Can the gilts be ordered in larger size and that way easier fulfil their needs?



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Heat synchronisation

- Great advantage in heat synchronising the gilts
 - We know when they are to be inseminated, and that way we can feed them more precisely by condition
- Condition recommendations:
 - 11-12 mm at beginning of synchronisation
 - 14-15 mm at insemination



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And now some cases...

One mixture for gilts

The smallest gilts get too slim and get a poor start

- Supplement of soy proteinkoncentrate for the smallest gilts from 20-40 kg either manually, by big bags or by installing extra silo
- Replacement of 10 % Alphasoy will lift the level of standard digestible raw protein from 100 gram to ca. 135 gram and standard digestible lysine from 5,5 gram to ca. 8,5 gram



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Too slim gilts at insemination ... What to do?

- Give sweets – watch out for your own backfat ☺
- 300 gram of sweets per gilt/day will increase the backfat with 3 mm in 3 weeks



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Resultats after allocation of sweets

Date: okt 21	
No	Proteinnr
1	10
2	10
3	10
4	10
5	10
6	11
7	11
8	11
9	11
10	11
11	12
12	12
13	12
14	13
15	14
16	15
17	15
18	15
19	15
20	15

Average = 11,3

Backfat before beginning allocation of sweets

Date: okt 21	
No	Proteinnr
1	10
2	10
3	10
4	10
5	10
6	11
7	11
8	11
9	11
10	11
11	12
12	12
13	12
14	13
15	14
16	15
17	15
18	15
19	15
20	15

Average = 13,1

Backfat after beginning allocation of sweets



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Tail bites due to severe restrictive feeding of gilts

- Fed with 2,7 feed units from 80-110 kg
- Allocation of 600-800 gram crushed beet pellets/straw pellets a day in an extra machine made the tail biting stop
- Way to regulate the restrictive feeding



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And now back to the sows



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Fat sows at farrowing

- This should be avoided by inseminating the gilts of correct condition and afterwards follow the recommended curves
- But – if a sow needs to loose weight it must be done in the farrowing stable
- Max 7-8 feed units per sow/day for fat sows



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Skinny sows at weaning

- Backfat scanning can be

Rygspæk ved fraævning	Dag 0-30 efter ins.	Rygspæk 4 uger efter ins.	Dag 30 - dag 84	Dag 84 - faring***	Rygspæk ved faring
Mager < 12 mm	4,5 FE	+ 0,30 mm	3,5 FE	3,5 FE	
Middel 12-14 mm	3 FE	+ 0 mm (13-15 mm)	2,3 FE	3,5 FE	14-17 mm
Fed > 14 mm	2,5 FE	+ 0,3 mm	2,3 FE	3,5 FE	

- The sows are placed together and are fed by condition



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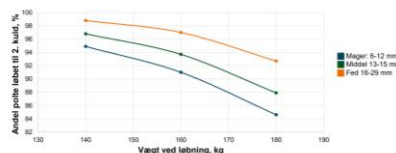
Thickness of backfat and mortality

- We recently launched Porcus SO-VIVOR, which we talked about at Fokus 35 in June 2021
- Backfat scanning and condition regulation will contribute to lowering mortality in your herds as well as nationwide



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Connection between weight of gilts at insemination and its impact of durability

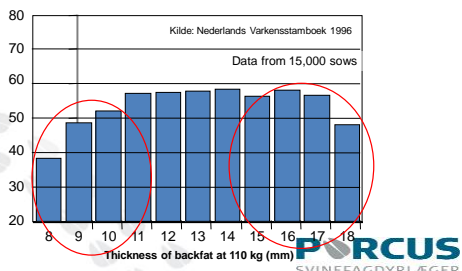


Kilde: Camilla Kaase Højgaard, SEGES Innovation



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Effect of thickness of backfat at 110 kg on durability (sows return after 4th litter)



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Thickness of backfat and mortality



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Talk to your Porcus vet

We'll help you get started ☺

