



Kansainvälisesti kilpailukykyinen sianlihantuotantoketju -hanke



H7A – Ahaa -reaction

Using of a right Ahaa -reaction could have better heats and higher oxytocin hormone secretion.

1. A boar contact on the first three days after weaning

- After weaning, close the boar front of the sows
- Use the different boars during the day time
- Use the oldest boars
- It can be assumed, that a few sows may show a heat during the first three days after weaning. That's why:
 - When you close the boar on front of the sows, check sows standing reflex.
 - The sow what shows good standing reflex, without any extra stimulation, must be inseminated on 12 hours.
- After three days from weaning, remove the boar out of insemination room.

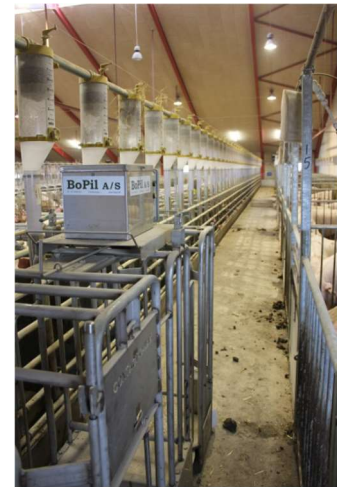


The boar is doing Ahaa -reaction on front of sows

The boar is sexually mature at earliest when it is 7 to 8 month old. It is recommended to take the boar on use when it is over 8 month old.

2. The boar using four to six days after weaning

- Before you start heat checking, the animals should be fed, and they have already calmed down from that
- On main heat checking day, bring the boar front of the sows only, when you are ready to do inseminations.
- Only four to six sows can be together on boar contact on a same time. Use that's why boar gates, or boar wagon.
- Use the several boars on same time at boar corridor.
- Let the boar go forward only when insemination is ready.



Using the boar wagon or -gates could control boar contact on insemination time.

3. Using the boar on heat checking and with gilts

- Do not use same boar at the afternoon, what you have used at the morning.
- When you bring the boar front of the sows, check the heats well.
- Bring the boar at right time on front of the gilts, basis of the 1. heat.

During the first three days after weaning, it is expected that 2 to 4 % of sows showing heat, depending on the feeding and amount of nursing sows.



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1. You must give immediately the boar contact for sows after weaning, using one or more boars. On the first three days after weaning sows and boar (boars) should have “free access” to each other. Animals must have able to see each other and a chance to do nose contact. Changing the boar on front of sows at midday, improves activity of the boar, so long as they don't know each other. The boar which is competitive, typically secrete foam and grunting more and that's how it will secrete more important hormones from mouth cavity to stimulate sows heats.

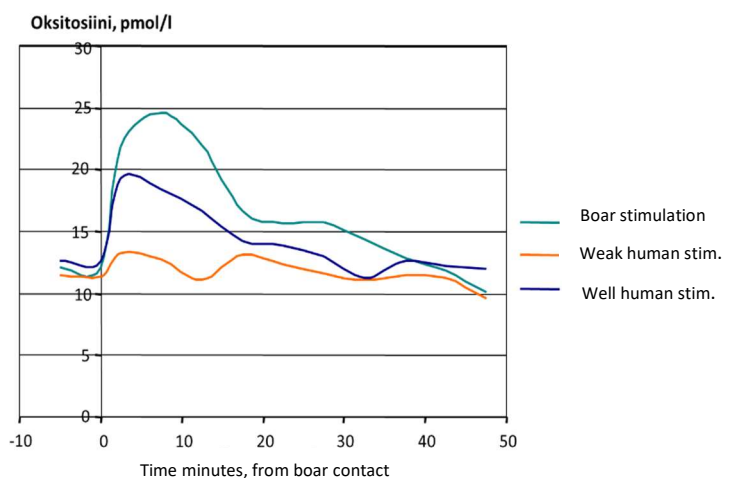
The boars must be sexually mature and ideally with some experiences. The older boars have a better effect, than young ones. Please note, if you leave boar on front of sows for a long time, the area must pass many different requirements.

After three days, remove the boar from sows front on boar own room / section. If you can't do that, at least move the animals so that boar and sows do not see each others / so far away as possible.

2. Make sure, that all peoples, who will do insemination work are completely ready to work, before you bring the boar on front of sows. Bring the boar front of just those sows what you want to heat check. Those sows where you do heat checking, must have able to see the boar and they must have possibility to be on nose contact.

It is important, that the boar is contact only with so many sows that it is possible to inseminate within 15 to 20 minutes. Use gates so, that the boar has only 4 to 6 sows at same time on contact. Another possibility is to use boar wagon, if the corridor is very wide.

The oxytocin hormone makes a uterus do constrictions and that how it can transport a sperm. The sperm can only swim about 1,5 cm, but the total distance is over 1 meter, so the sow must transport sperm in right place with oxytocin hormone. From the boar contact oxytocin effect have ended after 20 minutes. After that you can re-stimulate the sow, but only after 30 to 40 minutes. That's why you should not “wake up” any more sows that you have able to inseminate within 20 minutes.



Use the several boars. The boars become more active, when they could recognize from smell that some other boar have been on front of sows. By using different boars, will also give to the sows positive effect for heat. If you have more than one persons who do insemination work, it could be good to use more than one boar in same time on corridor. Of course, the boars must separate on own area with gates.

You should always move the boar back to own room after insemination work, otherwise Ahaa – reaction is not possible at next heat checking time.

3. It will help to activate the boar, if you give used paper where is sow's heat slime. The boar should also jump every 14 days, preferably immediately after end of heat checking work, “a gift” from good work. If the boar is made only for smell, you can still let him jump to sows in heat what are just going to culled.