



MILK CUP SYSTEMS MUST BE USED CAREFULLY

Marie Louise M. Pedersen Porcus 30 November 2017




AGENDA



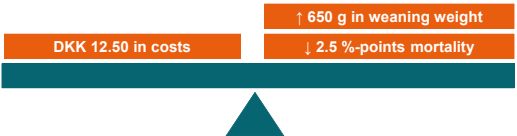
- Milk systems are not a free ride
- How to reduce the number of nursing sows?
- Types of milk powder

2




ECONOMY


A milk cup system costs DKK 12.50 per weaned piglet



3




THREE WAYS TO RAISE INCOME



1. Increase weight per piglet
2. Increase number of weaned pigs
 - Improve survival rates
 - Increase litter size and reduce the number of nursing sows
3. Reduce costs
 - 80-90% of total cost is for milk powder ~ DKK 10,00

4



KNOW YOUR COSTS

- Record monthly consumption of milk powder
- Calculate kg and cost per weaned piglet
- Compare with other herds

	13,-				18,5,-				
	Antal Frav	Kg Smooth	Gf/grls	Kg/Grls	Kg Milk	Gf/Grls	Kg/grls	Total pr grls	
Maj	2465	800	322	3,9	600	241	4,24	8,14	11,9
Juni	3140	913	291	3,5	640	204	3,59	7,09	12,2
Juli	2615	855	327	4,2	650	249	4,6	8,81	12,2
August	2730	785,5	287	3,74	416,5	153	2,83	6,57	12,8
September	3223	642	199	2,59	360	112	2,09	4,68	12,6
Oktober									



5

HOW TO REDUCE THE NUMBER OF NURSING SOWS

Increase the litter size at day 1

- The sow can nurse many piglets
- But it affects the small piglets



Trial with litters of 14, 16, 18 and 20 piglets

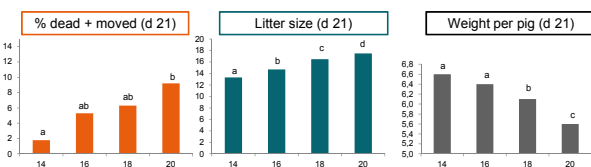
- Largest piglets (≥ 1 kg)
- Best sows (≥ 17 mm back fat and ≥ 14 functional teats)



6

CONSEQUENCE OF INCREASED LITTER SIZE

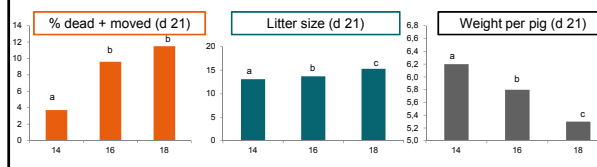
- Sows in **TRADITIONAL FARROWING PENS** can nurse more than 14 piglets



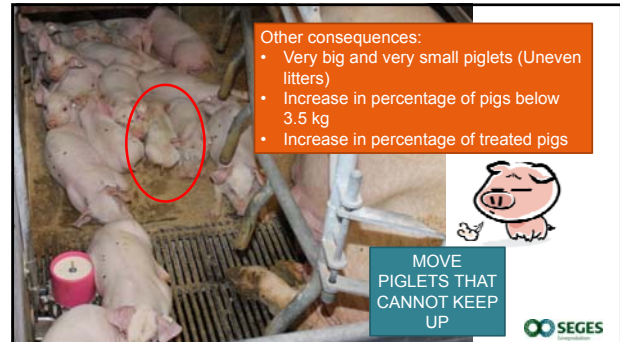
7

CONSEQUENCE OF INCREASED LITTER SIZE

- Sows in **PENS FOR LOOSE HOUSING** can only nurse 14 piglets



8




INCREASE LITTER SIZE

Do so carefully! – one piglet at a time

Record:

- ✓ Mortality
- ✓ Number of nursing sows
- ✓ Milk powder consumption
- ✓ Weaning weight




11

SEGES

THE SMALLEST PIGLETS IN THE FARROWING UNIT

- Smallest piglets increased their weight gain at a nursing sow (Thorup, 2017)
- Milk cups do not improve survival or weight gain among the smallest piglets in the farrowing unit (New trial)
- They still need extra care



12

WHICH MILK POWDER TO USE?

SOW MILK will always be the cheapest and best nutrition for piglets!

Can the piglets digest the powder?



13

CAN THE PIGLETS DIGEST THE POWDER?

• Piglets can digest:

- Milk proteins
- Lactose
- Fat

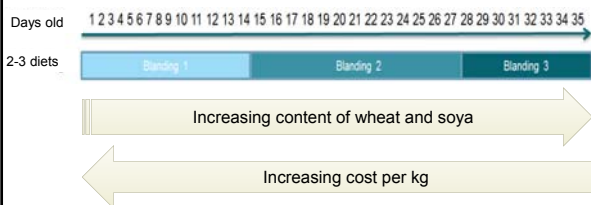
= **MILK**

In time piglets become capable of digesting wheat and soya



14

PIGLETS GET SEVERAL DIETS



15

ANALYSIS OF 6 DIETS

	Av. Diet 1	Av. Diet 2
Price per kg	13-22	9-16
Energy, FUgp/kg	1.61	1.56
Fat, %	14.2	9.5
Protein, %	21.1	20.8



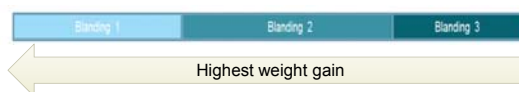
16

A GOOD MILK POWDER

- High energy content
- A high percentage of milk products
- High fat content
- Remaining nutrients = similar to sow milk



2-3 diets



17



CHECK LABEL INSERT

- Check ingredients
- Ingredients vs price
 - Milk products and fat are expensive ingredients
 - Wheat and soya are cheap ingredients
- Check fat content
- Ask for information on energy content

Skimmed milk powder, whey powder, whey protein, fat-enriched whey powder, dairy byproducts, vegetable fat, vegetable oils (palm and coconut), saccharose, dextrose, wheat, wheat gluten, wheat protein concentrate, soy protein concentrate, potato protein, rice

18

GOOD MANAGEMENT IS NEEDED.
A milk system does not take care of the piglets and sows.

19



20

