Supplement table 1. A-Index categories, parameters and point scale for lactating sows, modified from Munsterhjelm *et al.* (2006)

Category Parameter	Best level	Worst level	Point scale
Locomotion opportunities			max. 11
Farrowing pen	Sows are able to turn around	Sows in crates all the time	3-2-1.5-0
Available pen area	>6m ² , sow is free	Sow in stall	2-1.5-1-0
Stalling of the sow	2-3 days pre partum or free sow		2-1-0
Separate activity areas in pen,	Three separate areas, free sow	No separate areas, sow in	2-1.5-1-0
SOW	Three separate areas, free sow	stall	2 1.0 1 0
Separate activity areas in pen,	Feeding, resting, excretion	No separate areas	1-0.5-0
piglet	r eeding, resting, excretion	No separate areas	1-0.5-0
	Padding 20m	No	1050
Rooting material	Bedding, >3cm	No	1-0.5-0
loor quality	5 12 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		max. 8
Amount of bedding ^a	Bedding, all animals all the time	No bedding	2-1-0
Quality of bedding ^a	Straw	Other	1-0
Cleanliness of lying area, sowb	Clean and dry	Not completely	2-1-0
Cleanliness of lying area, piglets ^b	Clean and dry	Not completely	2-0.5-0
Quality of floor and slats	Good, non-slippery, slats < 11	Not good	1-0.5-0
•	mm	•	
ocial interaction			max. 9
Size of farrowing room	< 9 pens, only sows with litters	≥13. other pigs in room	2-1.5-1-0
Nestbuilding possibility	Free farrowing, >5cm material	Farrowing in stalls. no	5-3-2-1-0
. 155to and may possibility		material	33210
Calmness of animals	Calm and curious	No	2-0
table climate	Cairri and curious	NO	max. 28
	4001 (1	40,4001	
Light regimen ^c	>100 lux, fluorescent lamp	40-100lux. reading is hard	1-0
Light period ^c	8-12 h/day	over 12 or under 8	1-0
Night light ^c	Yes, light bulb	No. nothing	1-0.5-0
Windows and natural light ^c	To north or possibility to cover	No windows	2-1-0
Effective temperature, sow	15-18°C	<15°C or >21°C	3-1.5-1-0
Effective temperature, piglets	28-32°C	Other	3-0
Floor heating for piglets	Yes, works	No	2-1-0
Creep box for piglets	Yes, draught free	No	4-2-1-0
Incoming air	Working, to dunging area, if hot	Inadequate	3-2-1-0
mooning an	to the resting area	madequate	3-2-1-0
Lli alite d		Othor	0.0
Humidity ^d	50-80%	Other	2-0
Power of ventilation (m³/sow/h)d	Good: >250	Inadequate: <180	2-1-0
Air quality ^d	Good, no gases or dust	Bad. gases and stuffy	2-1-0
Noise	<55 dB	>65 dB	2-1-0
eeding			max. 21
Feeding regimen	Strictly followed plan	The feed is suitable for sows	2-1-0
Feeding times per day	4 or ab libitum	1-2	2-1-0
Body condition score	>95 % in good condition	<90 % in good condition	3-2-0
Roughage	Yes	No	1-0.5-0
Litter equalization, milk	Yes	Occasionally or no	2-0
substitute ^e	163	Occasionally of 110	2-0
	Croop fooding from 1 work of	No piglata are given dry	1050
Creep feeding ^e	Creep feeding from 1 week of	No. piglets are given dry	1-0.5-0
NA	age	feed before weaning	
d	Free, feed can not cover	Free. feed can cover	2-0
	drinking nipple	drinking nipple	
Water flow, sows ^f	>4 liters/min	< 3 liters/min	5-4-0.5-0
Water flow, piglets ^f	<0,5 liters/min	>0.5 liters/min	1-0
Water temperature ^f	Pre-heated, 15-17°C	No preheating, or other	1-0
lealth and stockmanship	•	. 3	max. 23
Hygiene of feeding and drinking	Good: clean and dry	Moderate	2-0.5-0
equipment	Good: oldari aria ary	Moderate	2 0.0 0
Condition of pen fixtures	Good	Moderate	2-0.5-0
Health of skin ^g	Good in >95% of animals	Problems with >30% of	1-0.5-0
		animals	
Health of claws and joints ⁹	Good in > 95 % of animals	Problems with >30% of	2-0.5-0
		animals	
Farrowing supervision	Always	No or occasionally	2-1-0.5-0
Teeth-clippingh	No	Clipping max. 1 week old	1-0.5-0
Castrating ^h	No	Castration max. 1 week old	2-1.5-0
Culling	No chronically ill animals or	No culling or runts in >10	3-1-0
Culling		litters	J- 1-U
	runts present		
Diglot mortality	40.0/	- 22.0/	
Piglet mortality Book keeping	<8 % Yes	>23 % No	7-5-3-2-1.5-1 1-0

a-h. Parameters marked with same upper index have formed one parameter in Munsterhjelm et al. (2006)

^{*} Animal-based parameter

Supplement table 2. A-Index categories, parameters and point scale for dry sows, modified from Munsterhjelm *et al.* (2006)

Category	Best level	Worst level	Point scale
Parameter			
Locomotion opportunities	•	0: 11 4 1	max. 21
Pen	Group housing	Stall >4 weeks	2-1-0
Available solid floor area, sow ^a	>3 m ² /sow	<1,3 m ² /sow	2-1.5-1-0.5-0
Available solid floor area, gilta	>2 m²/gilt	<1,0 m ² /gilt	1-0.5-0
Area of deep litter	>3 m ² /sow	<1,5 m ² /sow	4-3-2-1.5-1-0
Separate activity areas in pen	Feeding, resting, excretion	No separate areas or stalls	2-1-0
Rooting material	Straw, hay or compost >5 cm	No	5-3-2-1-0.5-0
Body scratching possibilities	Brushes, corners, poles	No	1-0.5-0
	Yes, with wallowing area and		
Outdoor enclosures	shade	No	2-1.5-0
Boar pens	>6 m ² or >10 m ² if used for mating	<6 m ²	2-0
Floor quality			max. 12
Bedding	Straw or straw and something else		4-3-2-0.5-0
Cleanliness of lying area	Clean and dry for all sows	Not completely	2-1-0
Slipperiness of the floor ^b	Non slippery	Lying and resting areas	
		slippery	1.5-1.0
Slats ^b	<2,5 cm or no slats	>2,5 cm	0.5-0
Quality of floor and slats ^b	Good, slats max. 20 mm	Not good	1-0.5-0
Solid floor m ² /sow ^c	>1,3 m ² /sow crate included	<1,3 m ² /sow crate inc.	2-0
Solid floor m ² /gilt ^c	> 0,95 m ² /gilt crate included	<0,95 m ² /gilt crate inc.	1-0
Social interaction			max. 16
Feeding system, sowsd	Closing gate	Through >30cm per animal	3-1.5-1-1.5-0
Feeding system, giltsd	Closing gate	Through >30cm per animal	1-0.5-0
Separated compartments in pen	3 or more	None or stalls	1-0.5-0
Mixing of the source	Ctable groups	Individual animals are	
Mixing of the sows ^e	Stable groups	brought to the group	2.5-1-0
Gilt introductione	After farrowing, or in an own group		2.5-1-0
Group size in 1st gestation monthf		1 or >12	1-0.5-0
Group size 2 nd -3 rd gestation			
month ^f	2-7 animals	1 or >100	3-2.5-1.5-0.5-0
* Calmness of animals	Calm and curious	No	2-0
Stable climate			max. 16
Light regimen ^g	>200 lux, bright	40-100lux, reading is hard	2-1-0
Light period ^g	12-16 h/day	8-10 h/day	1-0.5-0
Night light ^g	Yes, light bulb	No, nothing	1-0.5-0
Windows and natural light ⁹	To north or possibility to cover	No windows	1-0.5-0
Effective temperature	17-22°C	<15°C or >24°C	3-2.5-0
	Working, to dunging area, if hot to		
Incoming air	the resting area	Inadequate	1.5-1-0.5-0
Humidity ^h	50-80%	Other	1-0
Power of ventilation (m ³ /sow/h) ^h	Good: >150	Inadequate: <113	2-1-0
Air quality ^h	Good, no gases or dust	Bad, gases and stuffy	1.5-0.5-0
Noise	<55 dB	>65 dB	2-1-0
Feeding	100 42	700 42	max. 16
Feeding regimen	Strictly followed plan	The feed is suitable	2-1-0
* Body condition score	>95 % in good condition	<90 % in good condition	3-1-0
Roughage	All the time, or 2 times a day	Feed has fibre	4-3-0
Animals/drinking place	max. 8	>10	2.5-1-0
Water flow ⁱ	>2 liters/min, water is free	<2 liters/min	3-0
	75-90 cm, if on the through <90 cm	other	1.5-0
Health and Stockmanship	75 55 6m, ii on the throught <50 cm	Outer	max. 19
Hygiene of feeding and drinking			mun 19
	Good: clean and dry	Moderate	2-1-0
equipment	Good: clean and dry Good	Moderate	2-1-0 2-1-0
Condition of pen fixtures * Health of skini			
i lealth of skir	Good in >95% of animals	Problems with >30%	1-0.5-0
ricallii oi claws and joints	Good in > 95 % of animals	Problems with >30%	2-1-0
Limping, sitting	Little: <5 % of animals	> 30 % of animals	2-1-0
Other illinesses,	Little:<3% of animals, no mange	>5 % of animals	2-1-0
Sick pen	Bedded pen, not in other use	No	3-2.5-2-0
* Culling	No chronically ill animals present	Chronically ill sows present	2-0
Book keeping * Farrowing rate	Yes	No	1-0
	>90%	<75%	2-1.5-1-0.5-0

a-j. Parameters marked with same upper index have formed one parameter in Munsterhjelm *et al.* (2006) * Animal-based parameter

Locomotion

Stable climate (temperature, air draught, noise, light) ANIMAL WELFARE

Floor quality

Feeding

Social interaction

(animal - animal, animal - human)

Health and stockmanship

Total piglets born

1. litter

Still-born piglets

1. litter



Piglet mortality between birth and weaning

1. litter

PRODUCTION / sow / year

Still-born piglets

2+ litters

Piglet mortality
between birth and weaning
2+ litters

Total piglets born

2+ litters

To provide the animals with a favourable environment

Build/restructure facilities that improve animal welfare

Take care of animal health more intensively

To treat the animals humanely

To invest in my own motivation and well-being at work

Treat the animals more humanely

To take care of the animals' health

I intend to...
I perceive as important...

Take time off for leisure time and holidays



FARMER ATTITUDES

I perceive animal welfare as an...

I listen to...

Intrinsic value

Slaughterhouse

Consumer & Trade

Veterinarians

Researchers

Instrumental value

Other farmers

Agricultural advisers