# Welfare Issues in Sows

### **Physical wellbeing**

| Welfare Issue           | Problem                                  | Solution   |
|-------------------------|--|--|
| Confinement - sow       | Shoulder sores, weak muscles and         | Group house sows throughout service,                                 |
| stalls, farrowing       | bones, cardio-vascular problems,         | pregnancy and farrowing  |
| crates, tethering       | dystocia, urinary infections             |  |
|                         |  |  |
| Lameness - typical      | Poor flooring, especially fully slatted; | Straw bedding for lying areas and rubber                             |
| rates of 10% lame       | wet and slippery floors                  | matting for standing areas; good drainage                            |
|                         |  |  |
| Poor body condition     | Competition at feeder, inappropriate     | Provide sufficient space at the feeder for all                       |
|                         | diet                                     | sows to feed simultaneously; distribute feed                         |
|                         |  | over a large area for on-floor feeding;                              |
|                         |  | provide an appropriate number of                                     |
|                         |  | individual stations in automatic systems                             |
| Poor sow comfort        | No bedding material; low space           | Provide deep straw bedding and sufficient                            |
|                         | allowance                                | space, calculated with the allometric curve                          |
| Poor thermal<br>comfort | Heat or cold stress indoors              | Provide adequate ventilation &                                       |
| comfort                 | Suppurp if kept outdoors                 | temperature control  |
|                         | Sunburn if kept outdoors                 | Provide shelter, shade and wallows outdoors to cool and protect skin |
| Mastitis, metritis,     | Bacterial infection of mammary glands    | Keep farrowing pens clean and dry; ensure                            |
| agalactia               | and uterus; loss of milk supply leads to | sow has exercise before farrowing and in                             |
| agalactia               | high piglet mortality and poor           | early lactation; provide plenty of water at                          |
|                         | weaning weights                          | all times; avoid over fat sows                                       |
| Damage to sows'         | Competition between new born             | Breed sows for sustainable litter sizes and                          |
| teats                   | piglets for sufficient milk supply;      | good sow condition. Ensure good sow                                  |
|                         | inadequate numbers of functioning        | nutrition and provide supplementary feed                             |
|                         | teats                                    | for piglets. Manually introduce new-born                             |
|                         |  | piglets to teats during suckling. Provide                            |
|                         |  | sows space for movement to increase milk                             |
|                         |  | production   |
| Health monitoring       | All health and disease issues – if       | Develop a herd health plan to monitor                                |
|                         | they're not measured they can't be       | disease and welfare performance; set                                 |
|                         | improved                                 | targets and plan action to reduce incidence                          |
|                         |  | rates  |

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#### **Mental wellbeing**

| Welfare Issue   | Problem  | Solution   |
|---|--|--|
| Confinement - sow<br>stalls, farrowing<br>crates, tethering | Boredom, frustration, depression   | Group house sows throughout pregnancy<br>and use free-farrowing systems during<br>lactation  |
| Barren environments   | Boredom, aggression, stereotypy  | Provide complex, edible, destructible<br>substrates (e.g. straw, rice hulls), and a<br>varied environment throughout life                        |
| Fear  | Low-ranking individuals in the social<br>hierarchy are afraid of joining the<br>group and dominant individuals | Provide barriers and areas of refuge, so<br>sows can escape aggressors. Keep sow<br>stable groups stable and avoid mixing                        |
|   | Flighty behaviour due to fear of humans  | Ensure positive human-animal interactions–<br>use pig boards/flags for handling, do not<br>use electric goads, act in a calm, predictable<br>way |
| Hunger  | Feed restriction in early to mid-<br>pregnancy to avoid excess weight gain<br>– leads to aggression            | Provide a high fibre diet with <i>ad libitum</i> roughage for satiety (feeling full)   |
| Nose rings in   | Inability to express rooting behaviour,  | Avoid nose ringing. Provide frequent   |
| outdoor sows  | pain caused by ring  | pasture rotation, large land availability  |

### Natural behaviour

| Welfare Issue   | Problem   | Solution   |
|---|---|--|
| Abnormal behaviours   | Stereotypic bar biting / chewing,<br>during confinement   | Group house sows; provide complex, edible,<br>destructible substrates (e.g. straw, rice<br>hulls), and a varied environment  |
| Aggression  | Skin lesions and lameness                                 | During mixing, provide plenty of space, soft<br>bedding, and barriers to hide from<br>aggressive sows; feed <i>ad libitum</i> . Preferably<br>keep sows in stable groups |
| Restriction of species-<br>specific behavioural<br>expression | Lack of space for development of functional areas indoors | Calculate space allowance using the<br>allometric curve. Provide separate<br>functional areas for eating, dunging, rest<br>and activity.                                 |
|   | Inability to express nest building behaviour              | Provide nesting material before and during farrowing   |
|   | Inability to express maternal behaviour                   | Use free-farrowing systems   |

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