

HEALTH 2 ACTION FOR PRODUCTIVITY

Factsheet 4

Key Targets

Aim to keep pigs within their thermoneutral zone in order to:



2 Maintain high feed intake and growth rates throughout the summer months

Heat stress (outdoor herds)

Heat stress is caused when a pig's body temperature rises above certain limits; in these circumstances, the pig will first increase its respiration rate in an attempt to keep cool, then search for environmental opportunities for cooling, ie wallowing, soiling pen and lying in urine. If the pig cannot cool itself sufficiently it will collapse and, in the worst scenario, die.

Pigs subjected to high temperatures will have reduced growth rates (by up to **50g/d**) and, in the breeding herd, farrowing rates could decline by as much as **25%**, with litter size showing a small drop as well.

Heat stress must be avoided in order to prevent unnecessary suffering and reduced productivity

Pigs kept outdoors are particularly vulnerable to radiant heat gain and it is important that they have access to shade in sunny weather. There are a number of ways in which producers can minimise heat stress:

WALLOWS

Wallowing and rooting in the cool earth are the two primary methods used by pigs to cool down, as heat is lost through the evaporation of water from the skin. It is important that the wallows are muddy, as the layer of mud on the body can reduce sunburn.

For the most part of the year, wallows will require only minimal management, however, during the warmer months, effective wallow management is crucial to ensure they do not dry up.

Wallow management

 Provide enough space for twice the number of pigs it is intended for; this will enable the more submissive animals to use the wallow

- Dig wallows early in the year to ensure you are prepared
- Consider hiring a digger to save time and effort. Wallows should be more liquid than mud; the consistency should resemble emulsion paint
- During periods of little/no rainfall, replenish with water daily to prevent wallows from drying out
- Do not allow wallows to become stagnant as this can lead to infections
- Provide a separate supply of clean water for drinking, in addition to the wallow.



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ACCOMMODATION

It is essential that recently farrowed sows are encouraged to lie in their arcs to ensure that piglets are able to suckle. However, internal arc temperatures will always be higher than the external temperatures due to the extra heat produced by the sow and piglets.

- O Ensure arcs are well insulated
- Take advantage of the prevailing winds position the arcs so they face into the wind
- Open back vents to improve ventilation
- Consider painting the arcs white to reflect sunlight
- Draughts should be eliminated, as at ground level they can still cause problems.

SHADE

Sunburn is common in early summer (May/June), as pigs are exposed to the first strong sunlight since winter. Severe sunburn, when the skin blisters, can cause pregnancy failure, and the pain and discomfort will lead to increased stress levels.

Although a layer of mud will reduce sunburn, it is essential to provide shade for the animals so they can move out of direct sunlight.

BREEDING HERD

Sows

- Where possible, serve at either end of the day, when it will be cooler, and ensure that holding areas are shaded
- Maintain good hygiene, especially where sows have been wallowing, and ensure vulvas are clean pre-insemination. Have handwashing facilities and/or gloves readily available.

Boars

- Heat stress tends to reduce the libido of boars and can reduce the viability of semen for up to eight weeks post heat stress
- Record periods of hot weather on your calendar and remember to check semen quality for up to **eight weeks** after the last period of heat stress or ill health
- Boars will not work in hot conditions and encouraging them to do so is likely to increase heat stress. Carry out all DIY at either end of the day.



Ensure that a dry, clean bed

of straw is provided

in the shade, which will encourage the pigs to lie in these areas

Piglets are susceptible to sunburn



It is essential to provide shade for the animals so they can move out of direct sunlight

Temperature control of AI doses is crucial, as they can overheat quickly and become unviable. Ensure that doses are kept in an insulated container (**16–18°C**) until required for insemination and that they are shielded from direct sunlight. **See Action for Productivity 30 for more information.**

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