

UC Davis Office of the Attending Veterinarian Standards of Care

Policy: SC-33-600
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Title: Husbandry Care of Swine

I. Purpose:

The purpose of this policy is to outline the minimum standards of care for swine (*Sus scrofa domesticus*).

II. Policy:

All units providing animal care for swine used in agricultural research and teaching must meet or exceed these minimum requirements based on the Guide for the Care and Use of Agricultural Animals Used in Research (*Ag Guide*). Swine used in biomedical research and non-standard agricultural teaching must additionally meet the requirements in the USDA Animal Welfare Regulations (*AWR*), the Guide for the Care and Use of Laboratory Animals (*Guide*), and Public Health Service Policy (*PHS*). Deviations or exceptions must be approved by the Attending Veterinarian and the IACUC.

III. Procedure:

Daily (365 days a year without exception):

- Observe each animal and check for health concerns (*AWR* 2.33).
- Ensure adequate feed and potable water is available (*Guide* pg. 65-68).
- Record sick and dead animals, and report them to Campus Veterinary Services (CVS) or designated clinical veterinarian per standard operating procedure for reporting sick or dead animals.
- For temperature-controlled housing, record minimum and maximum temperatures and humidity.
 - Temperature range for finishing (70-100 kg) and adult (>100 kg) swine is 50°F to 77°F (*Ag Guide* pg. 144).
 - Prenursery (3-15 kg) recommend 79°F to 90°F, Nursery (15 to 35 kg) recommend 64°F to 79°F, and Growing (35-70 kg) recommend 59°F to 77°F (*Ag Guide* pg. 144).
 - Humidity range for swine is 30% to 70% (*Guide* pg. 44).
- Spot clean cage, removing animals unless sufficient space is available for the animals to remain dry (*AWR* 3.131).
- Remove and replace any enrichment devices that are worn, damaged, or heavily soiled (*Guide* pg. 72)
- Clean and organize room, anterooms, and surrounding premises (*Guide* pg. 72).
- Record daily completion of tasks, initial, and date log sheet.

UC Davis Office of the Attending Veterinarian Standards of Care

As needed:

- Disinfect the animal room including walls, floors, and ceilings (if possible) (*Guide* pg. 72).
- Remove and replace worn or damaged equipment from primary enclosures and surrounding facility (*Guide* pg. 72).
- Chow must be discarded after 6 months of the milling date unless manufacturer guidelines recommend a shorter or longer expiration date (*Guide* pg. 66).
- Clean and sanitize feed storage containers (*Guide* pg. 67).

Environmental Enrichment:

- Refer to the Environmental Enrichment policy.
- Swine should be provided the opportunity to demonstrate species typical behavior. Examples of enrichment for swine include manipulable toys (*Guide* pg. 53).
- Devices must be checked regularly for wear and discarded when safety hazards are observed.

Facilities:

- Temperature alarms must be installed in all temperature-controlled rooms housing swine (*Guide* pg. 143).
- Adequate ventilation must be provided for the health and comfort of the animal at all times.
 - A minimum of 10-15 fresh room air exchanges per hour shall be provided in animal housing areas (*Guide* pg. 46).
- Floors shall be moisture-resistant, non-absorbent, impact-resistant, and relatively smooth (*Guide* pg. 137). Refer to Physical Plant and Facilities Maintenance policy.

Housing:

- Whenever possible, swine should be socially housed in compatible groups (*Guide* pg. 51).
- Floor space taken up by food bowls, water containers, and enrichment devices should not be considered part of the floor space (*Guide* pg. 56).
- Space requirements for agricultural research and teaching swine can be found in Table 11-2 of the *Ag Guide* on pg. 148.
- Space requirements for swine:

Number of Animals/ Enclosure	Weight (kg)	Floor Area/Animal (ft ²)
1	<15	8
1	Up to 25	12
1	Up to 50	15
1	Up to 100	24
1	Up to 200	48
1	>200	≥60
2-5	<25	6
2-5	Up to 50	10

UC Davis Office of the Attending Veterinarian Standards of Care

Number of Animals/ Enclosure	Weight (kg)	Floor Area/Animal (ft ²)
2-5	Up to 100	20
2-5	Up to 200	40
2-5	>200	≥52
>5	<25	6
>5	Up to 50	9
>5	Up to 100	18
>5	Up to 200	36
>5	>200	≥48
<i>(Guide pg. 62)</i>		

When housing this species, please also refer to the Animal Care Program's Standards of Care Policy on Pest Control, Identification and Labeling of Cages, Environmental Enrichment, Food Storage, House-Keeping in Facilities Housing Biomedical Research Animals, Physical Plant Facilities Maintenance, as well as the IACUC's Policy on Social Housing of Social Species.