

Purdue University Laboratory Animal Program Standards of Care

Title: Husbandry Care of Dogs

I. Purpose:

The purpose of this policy is to outline the minimum standards of care for dogs.

II. Policy:

All units providing animal care for dogs must meet or exceed these minimum requirements based on the USDA Animal Welfare Regulations (*AWR*) and the ILAR Guide for the Care and Use of Laboratory Animals (*Guide*). 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 ad libitum potable water is available (*AWA* 3.9, 3.10) (*Guide* p. 65-68).
- Record sick and dead animals and report them to LAP veterinary staff or designated clinical veterinarian per standard operating procedure for reporting sick or dead animals.
- Record/document minimum and maximum temperatures and humidity on the daily log.
 - Temperature range for dogs is 64°F to 84°F (*Guide* p.44)
 - Humidity range for dogs is 30% to 70% (*Guide* p.44)
- Rinse food and water receptacles.
- Remove excreta and food waste (*AWA* 3.11).
- Spot clean cage or pen, including walls and beds. If hosing is required, remove dogs from pens or caging unless sufficient space is available for the animals to remain dry (*AWR* 3.11).
- Remove standing water (*AWR* 3.11).
- Remove and replace any enrichment devices that are worn, damaged, or heavily soiled (*Guide* pg. 72)
- Clean and organize room, anterooms, and surrounding premises (*AWR* 3.11).
- Record daily completion of each task, initial each task, and date the log.



Biweekly (not to exceed every 14 days):

- Clean and disinfect primary enclosure, feed and water receptacles, and environmental enrichment (*AWR 3.11*).

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 (*Guide pg. 66*) unless manufacturer guidelines recommend a shorter or longer expiration date.
- Clean and sanitize feed storage containers (*Guide pg. 67*).
- Each facility will develop their own best practices with sanitization typically occurring every 6 months or whenever there is a change in species but may vary with facility.

Identification

- Weaned dogs and older must be individually identified in addition to having appropriately labeled cage cards (*AWR 2.38*) (refer to AV Identification of Animals policy).
- Dogs can be permanently identified with a collar and tag, ear tattoo or microchip (*AWR 2.38*).
- If dogs are micro-chipped, the reader must be readily available and functional.

Environmental Enrichment:

- Refer to SOP # 305 - Social and Environmental Enrichment Program for Research and Teaching Animals

Facilities:

- Temperature alarms must be installed in all facilities housing dogs (*Guide pg. 143*).
- Adequate ventilation must be provided for the health and comfort of the animal at all times, by means of windows, doors, vents, or air conditioning and shall be ventilated so as to minimize drafts, odor, and moisture condensation. (*AWR 3.2*)
 - A minimum of 10-15 fresh room air exchanges per hour shall be provided in animal housing areas (*Guide pg. 46*).
 - Auxiliary ventilation, such as exhaust fans and vents or air conditioning, shall be provided when ambient temperature is 85 F or higher. (*AWR 3.2*)

Floors shall be moisture-resistant, non-absorbent, impact-resistant, and relatively smooth (*Guide pg. 137*).

Housing:

- Caging/Enclosures must be in good condition, free of any damage that may cause injury and escape proof (AWR 3.6).
- Whenever possible, dogs should be socially housed based on compatibility (AWR 3.6). All efforts should be made to find compatible social housing for singly housed dogs.
- Dogs that are singly housed due to experimental need or veterinary discretion must receive additional enrichment as well as positive human interactions at least daily. (Guide pg.64)
- Bitches with nursing puppies must be provided 5% additional floor space per puppy (AWR 3.6).
- Permanent tethering of dogs is prohibited (AWR 3.6).
- Enclosure height requirements for dogs are a minimum of 6 inches higher than the head of the tallest dog (AWR 3.6).
- Floor space requirements must fit these following two standards:
 - $(\text{Length of dog in inches (nose tip to base of tail)} + 6)^2 / 144 = \text{ft}^2$ (AWR 3.6)
 - Table below:

Weight (kg)	Floor Area/Animal (ft ²)
<15	8
15-30	12
>30	≥24
(Guide pg. 59)	