

Animal Research Review Panel Guideline 27-H

Research Animal Rehoming Guideline – Goats

Introduction

This guide is designed to support the implementation of the Research Animal Rehoming Guidelines and can be used by everyone involved in the use of goats for recognised research purposes. It provides specific guidance on the assessment of research goats for rehoming. This guide aims to:

- assist in the assessment of whether the physiological condition and behavioural attributes of the goats indicate that they can be rehomed with only minimal, transient impact on their wellbeing
 - prioritise the welfare of the goats and the safety and satisfaction of the public
 - ensure goats being rehomed are fit for their intended purpose, healthy and up to date on all standard preventative care
 - ensure rehoming conforms to national, state, and local legislation and regulations.
-

Approach to rehoming

Research establishments may institute their own rehoming program, or they may partner with one or more external rehoming groups. Before assessing animals for rehoming, it is essential to decide on the avenues for rehoming, taking into consideration:

- internal resources to manage the rehoming of the animal
- agreements in place with external rehoming groups
- availability of a suitable owner or responsible organisation to:
 - maintain the animals
 - provide routine husbandry procedures
 - assist with special needs of individual animals
- the capacity (number of animals) that can be rehomed via the research establishment's own rehoming program and via external rehoming groups.

Establishing good communication with rehoming groups can be beneficial as they can provide advice on:

- the likely success of rehoming
 - best methods of rehoming (such as pairing or bonding animals)
 - preparing the animals before they are released from the research establishment
 - identification of special cases and care strategies where an animal may need assistance to transition from the research environment
 - information/animal profiles needed to assist in rehoming.
-

Eligibility for rehoming

If an animal is healthy or has manageable health or behavioural issues it should be considered for rehoming.

Where animals are eligible for rehoming, assessment for rehoming should consider:

- the animal's age and life expectancy. These are not usually primary determining factors
- the animal's general and physical health and wellbeing
- the procedures the animal has been involved with and any ongoing sensitivities that may have resulted with respect to animal handling, feeding and general care. Appropriate consideration of these may include behaviour modification to improve the animal's response and/or notifying the new owners of the animal's specific sensitivities
- whether the rehoming process is likely to have minimal, transient impact on their wellbeing.

Goats are commonly kept and thus suitable food, care information and veterinary services are available. It is recommended that male goats be desexed prior to rehoming.

There are situations where rehoming of an animal is not an available or appropriate option. These situations should be identified in your accredited research establishment's rehoming policy.

Some of these situations will be clear before research commences, for example:

- the AEC has approved the reuse of the animal for research
- the AEC has approved the humane killing of animals for essential sample collection or testing
- laws and regulations that prohibit rehoming, for reasons such as risk to public health, biosecurity and the environment. For example, there may be restrictions on releasing animals that are genetically modified or that have been treated with certain substances (e.g. drugs, chemicals, infectious agents) and devices.

Other situations may only become apparent during the research project, or at its conclusion, for example:

- the AEC and institutional designated staff responsible for rehoming have good reason to believe that rehoming would not be in an animal's best interests, with consideration given to the quality of life, and life expectancy of the animal, including instances where the cumulative impact from use could have negative welfare outcomes for an animal
- when the behaviour of an animal indicates that it may pose a risk to public safety.

It is recommended that the research institution, rehoming organisation and prospective owner review the relevant legislation prior to any goats being rehomed. Current NSW animal welfare legislation, animal welfare standards and guidelines are available at the NSW DPI [Animal welfare regulation](#) and [Sheep & Goats](#) webpages.

When rehoming goats, the properties of new owners require a registered [Property Identification Code](#) (PIC) and animals must be fitted with a [National Livestock Identification System](#) (NLIS) tag in order to transport them from one property to another. As rehomed goats will not be entering the production system the animals need to be accompanied by a [Transported Stock Statement](#) (TSS). Records of movement of goats to their new home must be recorded as required by the [NSW Biosecurity \(National Livestock Identification System\) Regulation 2017](#).

During the research project

Planning for the eventual rehoming of animals involved in research should be integrated into the animals' care plan from the beginning of their involvement in any study. The rehoming coordinator should ensure that appropriate monitoring of the programs of socialisation, habituation, environmental enrichment and training are occurring during the research project to increase the chance of successful rehoming. These programs should be outlined in the accredited research establishment's procedure for the preparation of animals for rehoming. The rehoming coordinator should ensure early remedial action is taken, if possible, where an animal is deviating from the desired outcomes of those programs.

Periodic behavioural assessments should be carried out and recorded by animal care staff during the research project. There may be benefits for team morale in involving staff in the rehoming process – e.g. by forming a small rehoming committee. Staff should record individual animal behavioural observations, to be used when assessing the suitability of animals for rehoming. Where these observations reveal animals are stressed, efforts should be made to remove or reduce the stressors if possible.

Goats should receive all applicable routine prophylactic treatments, including vaccinations and parasite control.

Following conclusion of use

If animals are to be desexed and this has not occurred prior to the commencement of, or during, the research project, then determination of whether this is required should occur at the conclusion of the research project.

A final assessment of animals should not be undertaken until the animals have been given time to recover in a suitable environment that provides for normal species-specific behaviours.

Prior to making a final assessment, efforts should also be made to rehabilitate animals with known problem behaviours or that have health conditions that temporarily make them unsuitable for rehoming. It should be noted that rehoming organisations may be prepared to take on or assist in rehabilitating such animals.

Physical assessment of goats

Goats should be assessed by a veterinarian as being physically healthy before rehoming. A physical assessment should consider:

- general demeanour
- movement and mobility: should walk with normal mobility and range of movement
- neurological soundness: general reflexes (sight, hearing), not ataxic (uncoordinated)
- body condition score, for example, a score out of 5:
 1. Very thin – visually emaciated and weak. The backbone prominent, feels sharp and forms a continuous ridge; hips and shoulder bones prominent, ribs clearly visible and fingers easily penetrate into intercostal spaces between ribs
 2. Moderately thin – backbone prominent, feels smooth, and forms a continuous ridge; ribs still visible but with a small amount of fat cover. Intercostal spaces between ribs are smooth but can still be penetrated with fingers
 3. Good condition – backbone not prominent and is smooth and rounded; ribs barely visible and have an even cover of fat over them. Intercostal spaces between ribs are smooth but can still be penetrated with fingers using pressure

4. Overweight – backbone and ribs not visible. Can still feel and indent between ribs. The side of the animal is sleek in appearance
 5. Obese – backbone is hidden within fat, ribs not visible and covered with fat.
- coat and skin: look for signs of alopecia, ectoparasites, inflammation, lumps, growths, infection, lesions and trauma
 - respiratory tract: nasal discharge
 - eyes: should be clear, have symmetrical and normal pupil response, and be free of discharge
 - eyelids and gums: pink colour rather than pale or grey
 - dentition: no obvious issues with teeth, bite or chewing, including excessive overgrowth of teeth
 - horns: if the animal has horns these should not be loose or overgrown to the extent that they can injure the individual
 - ears: should have no discharge, inflammation or foul odour
 - limbs: no obvious lameness, swelling or pain on palpation
 - hooves: should be healthy and not smell (may indicate foot rot) and not be in need of trimming
 - abdomen appearance: not swollen or bloated
 - udders: smooth and well-formed with no abnormal discharge (milking breeds)
 - faeces: pelleted rather than runny or loose
 - any history of diarrhoea, vomiting, inappetence or unusual drinking or urination.
 - general heart and lung field auscultation/exams: no issues
 - any other abnormality.

The significance and appropriate management of any abnormal findings must be determined with veterinary advice. Base rehoming decisions on the expected impact on the goat's long-term quality of life.

Behavioural assessment of goats

Goats assessed as physically sound should be behaviourally assessed prior to rehoming, to gauge their likelihood of adapting to post-research life.

It is important to consider the context in which this behavioural assessment takes place. For an animal that has little experience of novel environments and unfamiliar people it would be reasonable to expect it will find many environments unsettling. If it recovers quickly and is actively engaged with its normal behaviour towards humans and their environment, it may be more resilient and therefore more suitable for rehoming.

Where possible, assessment of animals should take place in an environment outside normal territory and housing. Where possible, conduct behavioural assessments on animals that are not stressed to better understand their suitability for rehoming.

This assessment should be undertaken by people that are familiar with species-typical behaviour (usually a suitably qualified animal care staff member and a veterinarian). It should take into account the history of behavioural assessments carried out and recorded over time by animal care staff since the commencement of the research project.

Reasons for conducting behavioural assessments include:

- assessing animals for rehoming
- assessing what kind of environments may be suitable for the animal (e.g. homes where they can be separated from small children or other animals)

- understanding the temperament and needs of the animal
- exploring whether the animal displays any behaviours that have bearing on their rehoming.

A behavioural assessment should consider whether the goat:

- interacts with a variety of people who are familiar and unfamiliar
- accepts or tolerates handling
- can be held for worming and other husbandry tasks
- follows people, stares or flips its tail over its back
- rears towards, or head butts, people
- negatively reacts to humans / has an abnormally large flight distance
- has a history of positive interactions with other goats in the animal research establishment
- tolerates other goats / can be held in a group (some males show continuous aggression towards other goat and humans)
- displays normal feeding behaviour.

Presence or absence of one of these behavioural characteristics should not by itself ordinarily preclude rehoming. Potential recipients who are aware that an animal does not possess preferred behavioural characteristics may still wish to rehome it.

It is the responsibility of the establishment to decide on the applicability of specific temperament assessment tools to its situation.

The response of an animal is best recorded as a description of behaviour (e.g. kicked or charged), rather than an interpretation of the behaviour or emotion (e.g. angry, scared, excessively reactive or aggressive) so that the animal is judged as objectively as possible.

A goat with undesirable behaviours can often be rehomed satisfactorily when the recipient has been informed and is prepared to accept such behaviours. Experienced recipients often have the capacity to improve such behaviours.

Fear of humans can be reduced if the goats have regular positive interactions with animal carers.

Behaviour can change dramatically after rehoming. Stressors tend to be reduced living outside of a research establishment - mostly due to the fact that animals can usually exhibit a greater range of natural behaviours in the rehoming environment and housing.

References

- Ghosh, C.P., Datta, S., Mandal, D., Das, A.K., Roy, D.C., Roy, A. & Tudu, N.K. (2019) Body condition scoring in goat: Impact and significance. *Journal of Entomology and Zoology Studies* 7: 554-560.
- Hobson, M. (2019) Stress in angora goats. Downloaded from: www.angoras.co.za/article/stress-in-angora-goats. Accessed on 11 February 2020.
- Miller, D.W., Fleming, P.A., Barnes, A.L., Wickham, S.L., Collins, T. & Stockman, C.A. (2018) Behavioural assessment of the habituation of feral rangeland goats to an intensive farming system. *Applied Animal Behaviour Science* 199: 1-8.
- Ockert, K. (2015) Body condition scoring in goats. Downloaded from: www.canr.msu.edu/news/body_condition_scoring_in_goats. Accessed on 11 Feb 2020.
- Shackleton, D.M. & Shank, C.C. (1984) A review of the social behavior of feral and wild sheep and goats. *Journal of Animal Science* 58: 500-509.

Acknowledgements

The Animal Research Review Panel gratefully acknowledges the assistance of Matthew Crane, Petrea Wait and Dr Shari Cohen.

© State of New South Wales through Regional NSW 2022. The information contained in this publication is based on knowledge and understanding at the time of writing December 2022. However, because of advances in knowledge, users are reminded of the need to ensure that the information upon which they rely is up to date and to check the currency of the information with the appropriate officer of the Regional NSW or the user's independent adviser.