UNIVERSITY
OF WOLLONGONG
AUSTRALIA

ANNUAL REPORT to ANIMAL ETHICS COMMITTEE (Jan 2024 to Dec 2024)V2024.1

Report must be submitted no later than the 9th of January 2025
Reports may be submitted early if you have finalised your animal use for the 2024 year.

The regulatory Code governing animal research requires investigators to submit an Annual Report to their Animal Ethics Committee (AEC) for each approved project*.

Important notes:

- The Principal Investigator must sign and submit this report.
- ***A project will not be renewed until an Annual Report has been submitted and reviewed by the AEC***
- ***A project will not be renewed until all investigators have provided current Animal Ethics and Welfare training certificates***
- Conducting research under a protocol not renewed may constitute a breach of the NSW Animal Research Act.
- Inspectors under the NSW Animal Research Act or other authorized persons may audit this report and any supporting documentation.

All approved protocols must submit a report covering the period 1 January 2024 to 31 December 2024.
This includes projects that have not undertaken any work using animals during this period.
*Reports must be submitted by the 9th **of January 2025** so that there is sufficient time for review of the report and approval at the first meeting of the AEC. A new Animal Research Authority cannot be issued until the report has been reviewed and approved by the full committee.*

Please submit your reports to uow-animalethics@uow.edu.au

**The Australian Code for the Care and Use of Animals for Scientific Purposes* (8th Edition, 2013) clauses 2.4.34(i), (iii), and 3.1.29.

1. ADMINISTRATION

Date	Click or tap to enter a date.			
Animal Ethics Approval number				
Expected duration of project (as listed on the most recent ARA)	**Commencement date:**	Click or tap to enter a date.	**Expiry Date:**	Click or tap to enter a date.
Project title				
Principal investigator				
School/Unit				
Telephone/mobile				
Email				

1.1	**Please tick ONE of the following to indicate the status of the project:**
☐	Not commenced – please complete Section 1.1-1.5, 5.5, Section 6 and section 10.
☐	In progress WITH animal use during the reporting period – please complete sections 1 through 8, and section 10.
☐	In progress WITHOUT animal use during the reporting period 1 Jan 24 to 31 Dec 24 – please complete section 1, 2, 3, 6, 7 and 10.
☐	Suspended pending AEC review – please complete all sections.
☐	Commenced AND project abandoned ie no further work is planned – please complete all sections. (Final report)
☐	Not commenced AND project abandoned - please complete Section 1.2, 1.3, 5.5, 6.1-6.5 , 7 through 10 (Final report)
☐	Completed - please complete all sections. (Final report) A completed/Final report may be submitted once all animal use has been completed. Data and tissue analysis may still be underway.

1.2 Please provide a "lay" summary of the project. (You may copy and paste from your original application)

1.3 Are all the people listed in the most recent ARA still involved in the project?	Yes	☐	NO	☐
If "no" please complete an Amendment to Personnel form to remove those investigators no longer involved in the project.				

1.4 Have all investigators completed Animal Ethics and Welfare training as required by UOW (University of Wollongong) on or after 1 Jan 2021.	Yes	☐	NO	☐
Required training is available via Moodle module Animal Ethics and Animal Research Training https://moodle.uowplatform.edu.au/course/view.php?id=34352. For enquiries, please contact animalresearch-training@uow.edu.au				

1.5 Have you fully complied with the AEC approval conditions?	Yes	☐	NO	☐
If "no" please state how and why you have not complied with the AEC approval conditions.				

2. NUMBERS AND FATE OF ANIMALS

Collection of the following data is part of the University's regulatory reporting obligations. Appendices are attached to assist you in presenting data in the manner required by the NSW Department of Primary Industries.

Important notes:

- **If this project involves more than one species**, you must provide data for each species on a separate line in the tables below.
- **If any animals were subjected to more than one procedure in this project**, you must enter the highest Procedure Code applicable to those animals.
- **If any animals were used more than once for the same procedure in this project,** (e.g. teaching animal handling once a week) they are only counted once.
- **If any animals were used in one or more projects in addition to this project**, they must be counted in the Annual Report for each project.
- **Animals used specifically for the generation of new genetically modified lines** are counted under a single Procedure Code ('9'), even though generating the new line will have involved a range of different procedures. Note that this category does not include animals that were bred or used from existing genetically modified lines.
- **Immature animals must be included** if they have progressed beyond half the usual gestation or incubation period or if they have become capable of independent feeding, whichever is sooner. This includes animals that were culled before weaning without being used. The following may be used as a guide:

Mammals	From half-gestation onwards
Birds	From half-incubation onwards
Reptiles	From half-incubation onwards
Amphibians	Fully metamorphosed juveniles and older
Fish	Fully metamorphosed juveniles and older

2.1 Were all animals used/observed in the reporting period used/observed in NSW	Yes	☐	No	☐
If "yes" please complete table 2.2				
If "No' please detail animals used in NSW in table 2.2 and complete table 2.3 for animals used outside of NSW				

2.2 Please **consult the attached appendices** to complete the following table: Note drop down selection boxes are included in some columns to ensure correct coding for submission to NSW DPI. Please note if animals are subjected to different procedure categories in a single project a separate line should be used for each procedure.
Please do not include animals used outside of NSW in the first table. Please detail those at 2.3

Species (Common name only please	Purpose code	Procedure Code	Species Code	Fate of Animal	Number Used between 1 Jan 2024 and 31 Dec 2024	Please Check the box in this column if the numbers are **estimates** from observational studies and animals were not actually counted.	Total used to date (**including those in previous annual reports)**	Number approved including those added by amendment
	Choose an item.	Choose an item.	Choose an item.	Choose an item.		☐		
	Choose an item.	Choose an item.	Choose an item.	Choose an item.		☐		
	Choose an item.	Choose an item.	Choose an item.	Choose an item.		☐		

2.3 Please complete the table below for all animals used or observed outside of NSW

Species (Common name only please	Purpose code	Procedure Code	Species Code	Fate of Animal	Number Used between 1 Jan 2024 and 31 Dec 2024	Please Check the box in this column if the numbers are **estimates** from observational studies and animals were not actually counted.	Total used to date (**including those in previous annual reports)**	Number approved including those added by amendment	Location of use
	Choose an item.	Choose an item.	Choose an item.	Choose an item.		☐			
	Choose an item.	Choose an item.	Choose an item.	Choose an item.		☐			

2.2 Has the total number of animals used to date exceeded the number approved?	Yes	☐	No	☐

If "yes", please indicate below how this discrepancy arose.

For protocols that involve only fieldwork, without any laboratory work please go to section 4.

2.3 How many animals acquired during the reporting period or in earlier years, were still held at the end of the reporting period?ie on 31 December. Please indicate the species, strain if applicable, and number below.

Species	Strain	Number held

2.4 Were any animals transferred to other approved protocols during the reporting period?	**YES**	☐	**No**	☐

If yes please provide details below including a brief description of what they were used for on your protocol ie breeding, training in handling/injections etc.

Species	Strain	Number transferred	Receiving protocol number *(and institution if not UOW)*	Use

2.5 Did you acquire any animals from other protocols at UOW or other institutions (excluding ABR/ARC) during the reporting period?	**Yes**	☐	**No**	☐

If yes please provide details below including a brief description of what they were used for on the supplying protocol ie breeding, training in handling/injections etc.

Species	Strain	Number transferred	Providing Protocol & Institution if applicable	Use

2.6 Were any animals rehomed at the conclusion of their use during the reporting period?	**Yes**	☐	**No**	☐

If yes, please provide details of the number and species of each animal or group of animals rehomed and details of the home or rehoming facility used.			
Species	**Strain**	**Number rehomed**	**Details of home or rehoming provider**
Have you been able to assess the success of the rehoming? Please give a brief explanation below.			

2.7 Were any animals released back to the site of their capture during the reporting period?	**Yes**	☐	**No**	☐
If yes, please provide details of the number and species of each animal or group of animals released.				
Species	**Strain**	**Number released**	**Site of release**	
Are you able to assess survival post release at all? Please provide details below.				

2.8 Were any animals humanely killed without being used during the reporting period	Yes	☐	No	☐
If "yes", please explain why they were not used.				

3. ANIMAL BREEDING

3.1 Does this project involve the breeding of animals (other than wild animals in a natural environment)?	Yes	☐	No	☐ Proceed to section 4.
If "yes", please answer all the questions in this section.				

The Code requires that detailed records are kept of breeding colonies in order to ensure that animal wellbeing is safeguarded and that the breeding of surplus animals is avoided. These records must address **each of the criteria** set out below and must be available to the AEC (Clause 3.2.2).

Please contact the Animal Welfare Officer if you require advice on how to complete this section.

3.2 Are research specific animal lines held at ABR under this protocol	Yes	☐	No	☐ Proceed to 3.3
If "yes", please answer all the questions in this section.				

Line name	**IBC protocol number**	**No. sent to UOW**	**No. sent to Collaborators**	**No. used at ABR for tissue collection/research.**	**Total number bred at ABR.**

Please include here any comments you wish to make about the lines held at ABR.

3.3 Please indicate how records are maintained for breeding colonies under this protocol and how these records may be accessed if required by the AEC or attach a copy of your breeding records.

3.4 Breeding data. Please complete the following table for <u>each species or strain</u> of animal bred during the reporting period. *(copy and paste the table for each strain) {Please note: This section is **not** required for animals held at ABR}*

Species and strain (if applicable)	
Total number of animals born (for foetal studies total number collected)	
Average size of litter or clutch	
Average number of litters per breeding female	
Average number of fertile mating's per breeding male	
Total number of animals weaned (exclude litters where young were removed prior to weaning)	
Weaning percentage (i.e. total weaned/total born). Do not include litters where young were removed prior to weaning.	
Number of animals remaining as stock or replacement breeders at the end of the reporting period	
Number of animals culled prior to weaning without being used	

Number of animals culled after weaning without being used	
Number of animals culled as retired breeders	
How many culled breeders had not been mated at least once	
Number of animals dying or euthanased due to illness while under this protocol	

Please comment here if you would like to clarify or provide additional information:

3.5 Fertility and fecundity. The Code requires that records are maintained to allow assessment of fertility and fecundity in breeding colonies. Please comment briefly on fertility and fecundity in the colony, outline how this is assessed and indicate how records may be accessed. In addition to the data in the above table, measures of fertility and fecundity may include procedures such as recording inter-litter interval, fertile vs infertile mating, or trends in breeding performance over time.

3.6 Disease or mortality related to breeding. Please outline any breeding-related disease incidents (e.g. dystocia) and indicate what measures were taken to investigate the cause and prevent further problems.

3.7 Please indicate what measures are taken to assess the genetic constitution of breeding colonies if applicable (e.g. PCR for confirming genotype or assessing genetic diversity).

3.8 Did this protocol involve the breeding of animals to create a new strain or line of animals?	**Yes**	☐	**No**	☐

If 'Yes', contact the Animal Welfare Officer for advice on additional reporting required by the Code. {This does not apply to animal lines /strains being created at ABR}

4. LETHALITY TESTING

This section **only applies in those rare cases** where animals are allowed to die as a planned part of the study (i.e. they are not euthanased). Examples of lethality testing include the LD50 and LC50 tests.

Lethality testing does <u>not</u> include animals which are euthanased as part of the project (e.g. for tissue collection or voucher specimens), death by natural causes, accidental deaths and animals which are euthanased if something goes wrong.

4.1 Have any lethality tests been conducted during the reporting period?	Yes	☐	No	☐
If 'Yes', a separate Lethality Testing Report must be submitted for each test and each species. Please contact uow-animalethics@uow.edu.au for further information.				

4.2 If any lethality tests were conducted during the reporting period, has a Lethality Testing Report been submitted?	Yes	☐	No	☐
If "no" please provide details below				

5. PROGRESS

5.1 Please provide information about which parts of the approved protocol have been undertaken/completed in this reporting period. Provide a lay summary of the results you have achieved so far.

5.2 Were there any • Deaths or euthanasia of animals due to unplanned injury or illness, and/or • Unplanned illnesses or injuries that did not result in death or euthanasia? • This must include incidents that may have affected animals outside this project indirectly (e.g. incidents that affected animals in other protocols or non-target species).	Yes	☐	No	☐
If 'Yes', please provide a brief summary and indicate whether or not they were reported as Unexpected Adverse events				

5.3 For projects with an expected mortality rate due to acclimatisation, trapping or handling did the mortality rate exceed the initial approval percentage?	Yes	☐	No	☐
What was the final mortality rate due to acclimatisation or handling, or trapping?				
Were the numbers above the approved percentage reported as adverse events?	Yes	☐	No	☐
What measures have you taken to decrease the mortality rate?				

5.3 Did you implement any amendments to the original protocol <u>other than addition or removal of investigators?</u>	**Yes**	☐	**No**	☐
If 'Yes,' please briefly outline the nature of each amendment and AEC approval date. (Details of personnel amendments are NOT required)				

5.4 Has this **specific project** resulted in any scientific publications or presentations to date?	Yes	☐	No	☐
Please list below all scientific publications or presentations to which this specific project has contributed to date.				
Did you consult the ARRIVE Guidelines when preparing manuscripts for peer reviewed publications?	Yes	☐	No	☐

5.5 Were there any issues that caused delays or postponement of the project?	Yes	☐	No	☐
If 'Yes,' please provide an outline of why the work was postponed or delayed; the latter should include action taken and preventive measures implemented if applicable.				

6. IMPLEMENTATION OF THE 3Rs

The Code's Governing Principles require that the principle of 'Replacement, Reduction and Refinement' (the 3Rs) be applied at all stages of animal use (clauses 1.1, 1.18 – 1.30).

6.1.1 What measures have you taken in this reporting period to determine if any alternatives to the use of animals have become available in this research field?				
6.1.2 Have you/or will you be able to utilize these measures in this or future projects?	Yes	☐	No	☐

6.2.1 What measures have you taken to identify any new opportunities for further refinement of your project to improve welfare or reduce pain and distress experienced by animals used in your research?						
6.2.2 Have you been able to implement any identified refinements?	Yes		No		N/A	
If Yes, Please provide details of the refinements implemented. If no, Please explain why the identified refinements couldn't be implemented.						

6.3.1 What measures have you taken to investigate if there are any new opportunities to reduce the use of animals in your research?						
6.3.2 Have you been able to implement any identified reductions in animal numbers?	Yes		**No**		**N/A**	
If Yes, Please provide details of the reductions implemented.						

If no, Please explain why the identified reductions couldn't be implemented.				
6.4 Have you identified any other opportunities that may contribute to the 3Rs under this or future projects?	**Yes**	☐	**No**	☐
Please provide details				

6.5 Has a search of the literature been made since the initial project planning to determine if any findings that relate to this area of research have been published?	Yes	☐	No	☐
If yes, Please provide details and a brief summary.				

6.6 Has this project had any negative or unexpected outcomes to date?	**Yes**	☐	**No**	☐
Please provide brief details below				
Have these outcomes been made available to the scientific community?	**Yes**	☐	**No**	☐
Please provide information about where and when they have been or will be made available or why you do not plan to make them available.				

7. MONITORING

7.1a) Do you have protocol specific welfare scoring and intervention sheets for this project? *If so please attach the most recently approved version*	**Yes**	☐	**No**	☐

7.1b) Have you undertaken any review of the scientific and humane intervention points during this reporting period?	**Yes**	☐	**No**	☐

7. 1c) Provide information about any areas where scientific or humane intervention points may be altered to reduce the impact on animals in this or future protocols using this model?

7.2 Copies of protocol specific monitoring sheets (excluding AMS records) are required. This may include scanned copies of any paper-based monitoring records that are kept, along with copies of any relevant electronic records ie. Spreadsheets. Tick one the following below. - Monitoring sheets attached to annual report ☐ - Monitoring sheets are shared electronically with the AWO ☐ - Monitoring records are available on the AMS ☐

8. Researcher and Volunteer training (Ecological and Marine Research Only)

8.1a) Were there any volunteers involved in the project during the reporting period?	**Yes**	☐	**No**	☐

8.1b) Please provide the names and emails of all volunteers involved during the reporting period?		
Volunteer name	**Volunteer email**	**Duties performed**

8.1c) Please attach a training/competency record for each researcher or volunteer involved during the reporting period who received training or competency assessments. Templates for researcher and volunteer training and competency are available on the AE webpage

9. FINAL REPORTS ONLY (Complete this section for final reports only)

Please select ALL those which apply (Final Reports ONLY)	
☐	Project aims completed
☐	Project will continue – a new application has been / will be submitted to complete the aims of this project
☐	This project has provided information which will lead to further work in this area
☐	Project abandoned/discontinued.

8.1 Please comment in plain English on the overall impact this project has had within the field of research in which it was conducted and beyond (if applicable). Your answer should include progress towards achieving the original aims, basis for further research, as well as a discussion of any negative findings/null hypothesis.

10. OTHER COMMENTS AND DECLARATION

Any other comments you would like to submit to the AEC in relation to this project.

I certify that the information provided in this report is an accurate account of the project to which it relates. **I understand that this report and any supporting documentation may be audited by inspectors appointed under the NSW Animal Research Act or other authorized persons.**	
Signature of Principal Investigator	
Date	Click or tap to enter a date.

Office use only	Yes	No
Animal numbers confirmed		
Welfare concerns - review required		
Adhered to protocol approval conditions		
All named investigators have completed Animal Welfare and Ethics training/refresher since Jan 2021		
Monitoring sheets attached/submitted		
Researcher and /or volunteer training records attached for fieldwork/ERC projects		
Amendment to remove investigators required		
Administrative review complete		

APPENDIX 1 - Codes

Please note – Purpose Codes now have an A (for Activity) in front of the existing purpose number code in order to help improve accuracy of data entry.

Enter the **most appropriate** numerical code **(A1-A10)** from those listed below to describe the **primary** purpose of the project (one purpose only for each project should be entered).

Purpose Code:	Description:
A1	***Stock breeding*** Breeding projects to produce new teaching or research stock. Include the animals used to produce progeny and any breeders or progeny culled in the process, NOT the final progeny themselves (as these will be counted under the project in which they go on to be used).
A2	***Stock maintenance*** Holding projects for animals maintained for use in other projects. These animals may be maintained under an Animal Research Authority because they require special management. If they are not held under an Authority, (eg normal stock animals kept mainly for commercial production, but occasionally used in research) then they are only counted in the project where they are used for teaching/research. *Examples* • *Fistulated ruminants which are maintained under a holding project, for use in other short term feeding trial projects* • *Non-breeding colony of diabetic rats held for research in other projects*
A3	***Education*** Projects carried out for the achievement of educational objectives. The purpose of the project is not to acquire new knowledge, rather to pass on established knowledge to others. This would include interactive or demonstration classes in methods of animal husbandry, management, examination, and treatment. *Examples* • *Animals used by veterinary schools to teach examination procedures such as pregnancy diagnosis* • *Sheep used in shearing demonstration classes for students; Dogs used to teach animal care to TAFE students*
A4	***Research: human or animal biology*** Research projects which aim to increase the basic understanding of the structure, function and behaviour of animals, including humans, and processes involved in physiology, biochemistry and pathology.
A5	***Research: human or animal health and welfare*** Research projects which aim to produce improvements in the health and welfare of animals, including humans.
A6	***Research: animal management or production*** Research projects which aim to produce improvements in domestic or captive animal management or production.
A7	***Research: environmental study*** Research projects which aim to increase the understanding of animals' environment or their role in it. These will include studies to determine population levels and diversity and may involve techniques such as observation, radio tracking or capture and release. *Examples* • *Pre-logging or pre-development fauna surveys*
A8	***Production of biological products*** Using animals to produce products other than milk, meat, eggs, leather, fur, etc. *Examples* • *Use of a sheep flock to donate blood to produce microbiological media* • *Production of commercial anti-serum* • *Production of products, such as hormones or drugs, in milk or eggs from genetically modified animals* • *Quality Assurance testing of drugs* **but do not include animals which come under Purpose A10, below.**
A9	***Diagnostic procedures***

	Using animals directly as part of a diagnostic process. *Examples* • *Inoculation of day old chicks with ND Virus to determine virulence* • *Water supply testing using fish*
A10	***Regulatory product testing*** Projects for the testing of products required by regulatory authorities, such as the APVMA. **If the product testing is not a regulatory requirement, eg it is part of a quality assurance system only, those animals should be included in the appropriate category selected from above.** (This would be normally be Purpose A8 (Production of biological products) in the case of QA testing.) *Examples* • *Pre-registration efficacy or toxicity testing of drugs and vaccines*

PROCEDURE

Please note – Procedure codes now have a P (for Procedure) in front of the existing procedure number code in order to help improve accuracy of data entry.
Enter the **highest appropriate** alphanumerical code **(P1-P9)** from those listed below to describe the type of procedures carried out on the animals in the project. The descriptions given are a guide only. **Note:** for each project include additional lines for each procedure category where different animals within the same project are subjected to different procedure categories.
Where 'Death as an endpoint' or 'Production of genetically modified animals ' applies, animals must be placed in these categories (P8 or P9) rather than any others which might also appear appropriate.

Procedure Code:	Description:
P1	***Observation Involving Minor Interference*** Animals are not interacted with or, where there is interaction, it would not be expected to compromise the animal's welfare any more than normal handling, feeding, etc. There is no pain or suffering involved. *Examples* • *Observational study only* • *Breeding animals for supply, where only normal husbandry procedures are used* • *Breeding or reproductive study with no detriment to the animal* • *Feeding trial, such as Digestible Energy determination of feed in a balanced diet* • *Behavioural study with minor environmental manipulation* • *Teaching of normal, non-invasive husbandry such as handling and grooming*
P2	***Animal Unconscious Without Recovery*** Animal is rendered unconscious under controlled circumstances with little or no pain or distress. Capture methods are not required. Any pain is minor and brief and does not require analgesia. Procedures are carried out on the unconscious animal which is then killed without regaining consciousness. *Examples* • *Laboratory animals killed painlessly for dissection, biochemical analysis, etc* • *Teaching surgical techniques on live, anaesthetised patients which are not allowed to recover following the procedure*
P3	***Minor Conscious Intervention*** Animal is subjected to minor procedures which would normally not require anaesthesia or analgesia. Any pain is minor and analgesia is usually unnecessary, although some distress may occur as a result of trapping or handling. *Examples* • *Injections, blood sampling in conscious animal* • *Minor dietary or environmental deprivation or manipulation, such as feeding nutrient-deficient diets for short periods* • *Trapping and release as used in species impact studies* • *Trapping and humane euthanasia for collection of specimens* • *Stomach tubing, shearing*
P4	***Minor Surgery With Recovery***

	Animal is given appropriate regional or general anaesthesia with as little pain or distress as possible. A minor procedure such as cannulation or skin biopsy is carried out and the animal allowed to recover. Depending on the procedure, pain may be minor or moderate and postoperative analgesia may be appropriate. Field capture using chemical restraint methods is also included here. *Examples* • *Biopsies* • *Cannulations* • *Sedation/anaesthesia for relocation, examination or injections/blood sampling* • *Castration with regional or general anaesthesia and post-operative analgesia*
P5	***Major Surgery With Recovery*** Animal is rendered unconscious with as little pain or distress as possible. A major procedure such as abdominal or orthopaedic surgery is carried out and the animal allowed to recover. Post operative pain is usually considerable and at a level requiring analgesia. *Examples* • *Orthopaedic surgery* • *Abdominal or thoracic surgery* • *Transplant surgery*
P6	***Minor Physiological Challenge*** Animal remains conscious for some or all of the procedure. There is interference with the animal's physiological or psychological processes. The challenge may cause only a small degree of pain/distress or any pain/distress is quickly and effectively alleviated. *Examples* • *Minor infection* • *Minor or moderate phenotypic modification* • *Early oncogenesis* • *Arthritis studies with pain alleviation* • *Induction of metabolic disease* • *Prolonged deficient diets* • *Polyclonal antibody production* • *Antiserum production*
P7	***Major Physiological Challenge*** Animal remains conscious for some or all of the procedure. There is interference with the animal's physiological or psychological processes. The challenge causes a moderate or large degree of pain/distress which is not quickly or effectively alleviated. *Examples* • *Major infection* • *Major phenotypic modification* • *Oncogenesis without pain alleviation* • *Arthritis studies with no pain alleviation* • *Uncontrolled metabolic disease* • *Isolation or environmental deprivation for extended periods* • *Monoclonal antibody raising in mice*
P8	***Death As An Endpoint*** This category only applies in those rare cases where the death of the animal is a planned part of the procedures and animals die but are not euthanased. Where predictive signs of death have been determined *and* euthanasia is carried out before significant suffering occurs, they may be placed in category P6 or P7. *Examples* • *Lethality testing (including LD50, LC50)* **It does not include:** death by natural causes; animals which are euthanased as part of the project; animals which are euthanased if something goes wrong; animals euthanased for dissection or for use as museum specimens; or accidental deaths.
P9	***Production of genetically modified animals*** This category is intended to allow for the variety of procedures which occur during the **production** of genetically modified animals. As animals in this category may be subjected to both minor *and* major physiological challenges *and* surgical procedures, this category reflects the varied nature of the procedures carried out. It effectively includes ALL animals used in GM production other than the final progeny which are used in a different category of procedure. *Examples* • *Initial breeding animals for GM production*

	• *Animals culled as part of the GM production process*

SPECIES

Please note – the species codes now have an S (for Species) in front of the existing numerical species code in order to help improve accuracy of data entry.

- Enter the alphanumerical code from those listed below to describe the species or species group used in the project.
- The alphanumerical code is not sequential - for each species used select the appropriate numerical code as listed in the table below.
- There are no species codes S15, S19, S22, S25, S26, S44 or S55, and the highest number is S56.
- In filling out the table include additional lines for each species where more than one species is used in a project.

Laboratory mammals	S1	Mice
	S2	Rats
	S3	Guinea Pigs
	S4	Rabbits
	S5	Hamsters
	S6	Ferrets
	S7	Other laboratory mammals (not primates)
Domestic mammals	S8	Sheep
	S9	Cattle
	S10	Pigs
	S11	Horses
	S12	Goats
	S14	Deer
	S31	Cats
	S32	Dogs
	S33	Other domestic mammals
Birds	S13	Poultry
	S16	Exotic Captive
	S17	Exotic Wild
	S18	Native Captive
	S20	Native Wild
	S21	Other birds
Aquatic animals	S23	Fish
	S23A	Cephalopods (reporting not mandatory)
	S23B	Crustaceans (reporting not mandatory)
Amphibians	S24	Amphibians
Reptiles	S27	Lizards
	S28	Snakes
	S29	Turtles and Tortoises
	S30	Other reptiles

Primates	S34	Marmosets
	S35	Macaques
	S36	Baboons
	S37	Other primates
Native mammals	S38	Macropods
	S39	Possums and gliders
	S40	Native rats and mice
	S41	Dasyurids
	S42	Wombats
	S43	Koalas
	S44A	Monotremes
	S44B	Bandicoots
	S44C	Bats
	S44D	Other native mammals
	S44E	Seals
	S44F	Whales and dolphins
Exotic feral mammals	S45	Camels
	S46	Cats
	S47	Cattle
	S48	Goats
	S49	Hares
	S50	Horses
	S51	Mice
	S52	Pigs
	S53	Rabbits
	S54	Rats
	S55A	Dingo/Wild Dogs
	S55B	Foxes
	S55C	Other exotic feral mammals
Exotic zoo animals	S56	Exotic zoo animals

FATE OF ANIMAL

For each project, include additional lines where there are different fates of animals within the same project.

Fate Code	Description
F1	**Retained in project** This is where the project is ongoing and the animal will remain in the project in the next reporting year.
F2	**Retained for use in other projects or supplied to another establishment / individual for research** This is where the animal is kept by the establishment / individual for use in other research projects or supplied to another establishment / individual for use in research.
F3	**Retired from research and kept by the establishment / individual** This is where the animal is kept by the establishment / individual in retirement with no further plans for use in research.
F4	**Privately (non-research) owned and remained with owner** This is where the animal is privately owned and remains with the owner. *Examples:* • *Animal presented to veterinary clinic for treatment and participates in clinical trial* • *Behavioural study with privately owned companion animals*
F5	**Rehomed (as companion animal to private (non-research) home or rehoming organisation)** This is where the animal is rehomed as a companion animal to a private (non-research) home or to a rehoming organisation with the consent of the rehoming organisation.
F6	**Euthanased or died related to the project** This is where the animal is required to be euthanased as an integral part of the research project, or is euthanased or dies during the project as a consequence of the project procedures.
F7	**Euthanased or died unrelated to the project** This is where the animal is euthanased or dies during the project for reasons unrelated to the project. *Example:* • *Animal in long-term food palatability trial euthanased due to unmanageable osteoarthritis*
F8	**Euthanased because unsuitable to be rehomed** This is where the animal is no longer required for research and is euthanased on the basis of an assessment that the animal is unsuitable for rehoming. Reasons the animal is unsuitable for rehoming may include physical, behavioural and biosecurity factors. *Examples:* • *Animals with unmanageable health conditions causing discomfort or distress* • *Animals that have problem behaviours that are unable to be addressed through rehabilitation* • *Animals that could pose a biosecurity risk to other animals, people or the environment* • *Animals that are genetically modified*
F9	**Euthanased because unable to find a suitable home** This is where the animal is no longer required for research and is assessed as suitable for rehoming, but is euthanased because a suitable home is unable to be found.
F10	**Remain free living in the wild or released to the wild** This is where the animal is free living and remains in the wild (including where the animal is captured and released) and where the animal is released to the wild. *Examples:* • *Wildlife fauna surveys* • *Native animal captive breeding and monitored release programs*

NUMBER USED

Enter the number of animals ***that were actually used*** (ie not just the number supplied or authorised) in the project in the year for which statistics are being collected.