

1. DATA ENTRY FOR ANIMAL USE RETURN PART A

1.1. The Part A spreadsheet

An Excel worksheet is provided to complete Part A of the Return. Where pre-set options are to be used, drop-down boxes are provided with the available selections. Options provided in the drop-down boxes only will be accepted. Other entries will be returned for correction.

Dialogue boxes are also present that help with the information to be entered for each cell. These may be dragged using the mouse if they are obscuring cells. The title cell of each column may be used to access a help document on the second worksheet of the Excel document. To return to the data entry worksheet, click on the 'Data entry' tag on the left hand side of the bottom scroll bar.

As a line in the worksheet is completed for each project group or breeding group, the entries are tested for internal consistency. When an entry is made that is inconsistent with an entry in an earlier column, it is outlined in red and crossed-through. Pasting of entries may disable the testing macro and internally inconsistent or non-standard entries may occur. Spreadsheets with these incorrect entries will be returned for correction.

The spreadsheet is designed for use with Office 2003. There may be some formatting problems encountered if Office 2007 is used.

1.2. Grouping of animals for data entry

Project animals are to be reported in groups. Each project is to be broken down into groups by:

- [Animal type](#);
- [Animal source](#);
- [Particular procedure](#); and
- [Impact](#) of different types of procedure on animal (eg test group, control group, group for any animals assigned to a project but not used in a procedure etc).

A line is to be used to describe each group.

Specified Animal Breeding Colony animals are to be reported as breeding groups by:

- [Animal type](#);
- [Source](#); and
- Whether the animals are [non-GM or are involved in breeding established GM lines](#).

1.3. Category descriptions and examples

Following is a description of the entries for each column of the data entry worksheet. A flow-chart is provided in [Appendix 1](#) to aid completion of the table. The total list of options in the drop-down boxes are in [Appendix 2](#), and a sample completed form is in [Appendix 3](#).

1.3.i. Column A. Year

Enter the reporting period year in four-figure format (2011).

1.3.ii. Column B. Licence number

The licence number with the four-letter prefix omitted. For example, for licence SPPL145 only 145 should be entered. The licence number is in the text box at the top of the licence.

1.3.iii. Column C. Animals assigned to an AEC-approved project, or animals in a Specified Animal Breeding Colony

Indicate if the animals were part of an AEC-approved project or part of a Specified Animal Breeding Colony. Note that animals bred within an AEC approved project are considered to be Project animals.

1.3.iv. Column D. AEC approval designation

The project designation assigned by the AEC. For Specified Animal Breeding Colony animals enter "SABC" (Specified Animal Breeding Colony).

1.3.v. Column E. AEC Approval Date

The date when final approval was received for the project in short, Australian format (e.g. 12 November 2011 is to be entered as 12/11/2011. For Specified Animal Breeding Colony animals leave blank.

1.3.vi. Column F. Type of animal in group

Choose the animal type of each project group or Specified Animal Breeding Colony group. Note that "Specified Animals" are guinea pig; and rat, mouse or rabbit other than a rat, mouse or rabbit bred in the wild, and non-human primates. These animals are asterisked in the drop-down box.

1.3.vii. Column G. Source of group

Choose the appropriate source. Note that for all specified animals, a source marked with an asterisk must be chosen. For non-specified animals, a non-asterisked source must be chosen.

1.3.viii. Column H. Project purpose or Specified Animal Breeding Colony group.

For AEC-approved project animals, select the most appropriate option that describes the primary purpose of the project as a whole, or the purpose of the project for which new-line GM animals are being produced. Because this option applies to the project as a whole, it must be identical for all groups that are part of the same project. The Specified Animal Breeding Colony option must not be chosen for project animals.

For Specified Animal Breeding Colonies, the Specified Animal Breeding Colony option must be chosen.

"The understanding of human or animal biology": projects that aim to increase the basic understanding of the structure, function and behaviour of animals, including humans, and processes involved in physiology, biochemistry and pathology.

"The maintenance and improvement of human or animal health and welfare": projects that aim to produce improvements in the health and welfare of animals, including humans.

Examples

- *Use of a sheep flock to donate blood to produce microbiological media*
- *Production of commercial anti-serum, antivenine*

"The improvement of animal management or production": projects that aim to produce improvements in domestic or captive animal management or production.

"The achievement of education objectives": the purpose of the project is not to acquire new knowledge, rather to pass on established knowledge or training to others. This includes 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*
- *Animals used to teach animal care to TAFE students*

"Environmental objectives": projects that aim to increase the understanding of the animals' environment or its role in it, or aim to manage wild or feral populations. These include studies to determine population levels and diversity and may involve techniques such as radio tracking.

"Specified Animal Breeding Colony group": for Specified Animal Breeding Colony animals ONLY.

1.3.ix. Column I. Project benefit or Specified Animal Breeding Colony group:

For AEC-approved project animals, select the option that best describes the benefit of the project as a whole, or the benefit of the project for which new-line GM animals are being produced. Because this option applies to the project as a whole, it must be identical for all groups that are part of the same project. The Specified Animal Breeding Colony option must not be chosen for project animals.

For Specified Animal Breeding Colonies, the Specified Animal Breeding Colony group option must be chosen.

1.3.x. Column J. Particular procedure applied to project group or Specified Animal Breeding Colony group indicator

For AEC-approved project animals this column describes some particularly impacting, invasive, or controversial procedures that may have been undertaken on the group. If one of these has been conducted, select that option. If none of these procedures have been used, select the 'Other procedure' option. The Specified Animal Breeding Colony option must not be chosen for project animals.

For Specified Animal Breeding Colony animals, the Specified Animal Breeding Colony group option must be chosen.

1.3.xi. Column K. Impact of activities on project group or GM status of Specified Animal Breeding Colony group

For AEC-approved project animals, this describes the impact of any project activities on the welfare of the animals in the group. This includes the process of acquiring the animals if stress is likely to be involved (e.g. the capture of wild animals). Select the option reflecting the greatest impact of the procedure carried out on the group. The Specified Animal Breeding Colony group option must not be chosen for project animals.

Where an animal is euthanased, the code representing the highest-impact activity that the animal is subjected to prior to euthanasia should be chosen.

For Specified Animal Breeding Colony animals select one of the two GM status options for the Specified Animal Breeding Colony group.

“Observation Involving Minor Interference”: studies in which the normal activities of animals are minimally impacted on.

Examples

- *Laboratory animals in cages*
- *Feeding trial, such as Digestible Energy determination of feed in a balanced diet*
- *Behavioural or growth study with minor environmental manipulation*
- *Teaching of normal, non-invasive husbandry such as handling, grooming, etc*
- *Production of products, such as hormones or drugs, in milk or eggs from genetically modified animals that are subject to normal husbandry procedures only*
- *Any of the above where the animal is euthanased at the culmination of its use or as a result of misadventure.*

- “Animal Unconscious Without Recovery”: the animals are rendered unconscious under controlled circumstances (i.e. not in a field situation) with as little pain or distress as possible. Capture methods are not required. Any pain is minor and brief and does not require analgesia. Procedures are carried out on the unconscious animal that is then killed without regaining consciousness.

Examples

- *Animals(including fish) in laboratory killed painlessly for dissection, biochemical analysis, etc*
- *Teaching surgical techniques on live, anaesthetised patients that are not allowed to recover following the procedure*

“Minor Conscious Intervention”: the animals are subjected to minor procedures that would normally not require anaesthesia or analgesia. Any pain is minor and analgesia usually unnecessary, although some distress may occur as a result of trapping or handling.

Examples

- *Capture and release (with or without tagging) of animals (including fish) in the wild*
- *Trapping and humane euthanasia for collection of specimens*
- *Ear notching (preferred for reduced impact), tail tipping and toe clipping (discouraged on welfare grounds) for identification of new line GM animals*
- *Injections, blood sampling in conscious animal*
- *Minor dietary or environmental deprivation or manipulation, such as feeding nutrient-deficient diets for short periods*
- *Stomach tubing, branding, disbudding, shearing, etc*

“Minor Operative Procedure With Recovery”: the animals are rendered unconscious, with as little pain or distress as possible. A minor procedure such as cannulation or skin biopsy is carried out and the animals are allowed to recover (although the animal may later be humanely killed). Depending on the procedure, pain may be minor or moderate and post-operative analgesia may be appropriate.

Examples

- *Biopsies or blood sampling under anaesthesia or sedation*
- *Cannulations under anaesthesia or sedation*
- *Sedation/anaesthesia for relocation, examination or injections/blood sampling*
- *Field capture using chemical restraint methods*

“Surgery With Recovery”: generally the animals are rendered unconscious, with as little pain or distress as possible. A major procedure such as abdominal or orthopaedic surgery is carried out and the animals are allowed to recover (although the animal may later be humanely killed). Post operative pain is usually considerable and at a level requiring analgesia.

Examples

- *Orthopaedic surgery*
- *Abdominal or thoracic surgery*
- *Transplant surgery*
- *Mulesing, surgical castration without anaesthesia*
- *Surgery under anaesthesia for implantation of telemetry tags*

“Minor Physiological Challenge”: the animals remain conscious for some or all of the procedure. There is interference with the animals’ 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.*
- *Prolonged deficient diets, induction of metabolic disease.*
- *Polyclonal antibody production*
- *Antiserum production*

“Moderate to Major Physiological Challenge”: the animals remain conscious for some or all of the procedure. There is interference with the animals’ physiological or psychological processes. The challenge causes a moderate or large degree of pain/distress that 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 (discouraged – alternatives are available)*

“Death As An Endpoint”: this category only applies to those rare cases where a procedure is designed to cause the death of animals with no humane end-point. A Part C form must be completed for each project using this procedure. Death as an endpoint does not include: animals killed for dissection; animals which are euthanased on completion of the project or when predictive signs of death have been determined and alleviated; animals that are killed if something goes wrong; accidental deaths; or death by natural causes.

Examples

- *Toxicity testing (LD50, LC50)*
- *Testing of antivenoms*
- *Fatal disease progression*

“Specified Animal Breeding Colony group: non-GM breeding only”: routinely bred specified animals with no genetic modification.

“Specified Animal Breeding Colony group: established GM line breeding”: specified animals that have undergone genetic modification (or are from lines of animals resulting from genetic modification) according to AEC-approved SOPs.

1.3.xii. Column L. Number of animals in project group or in breeding group in 2011

Enter the total number of animals in the project group or breeding group during 2011. Where a precise measure of the numbers is impractical, such as for very large groups of animals (e.g. fish schools) or for non-captive animals, an estimate is satisfactory.

For Specified Animal Breeding Colony groups, this is the sum of:

- animals at the start of the year;
- animals acquired; and
- animals born,

minus live animals assigned to AEC-approved projects and not returned unused for re-issue.

1.3.xiii. Column M. Number of deaths in project group or breeding group in 2011.

Enter the number of animals in the project group or breeding group that die or are culled during the reporting period. This includes animals that are euthanased, animals killed for dissection, accidental deaths, death as an endpoint, or death by other causes. Do not include the deaths of animals that are not being kept for the purpose of the licence, such as wastage deaths of agricultural animals that are primarily managed for agricultural purposes by commercial operators. Reporting in this column relates to ethical as opposed to welfare considerations.

Note that this entry will often generate an error, indicated by being outlined in red and crossed-through. Options chosen that may generate errors in this cell are:

- Where the options “Animal unconscious without recovery” or “Death as an end-point” are chosen in the Impact column (Column I), that group must have 100% deaths (ie the same numbers in the Number used and Fate columns). If not all the animals were killed, those left alive must be described as a separate group in a new line.
- The number of animals dead from a project group or breeding group may never exceed that used or held. Therefore the cell in Column L (Total used) may never be more than that in Column M (All deaths).

Reminder – For AEC-approved project animals, all lines describing groups from the same project must have the same entry for columns that apply to the project as a whole i.e. Columns C, D, E, H, and I.

2. SUBMISSION OF RETURN DOCUMENTS

The licence holder is responsible for submitting a complete and accurate Return of animal use by 31 March 2011. This may include a Part A, a Part B, and a Part C.

As with last year, because the Part A flags inconsistent entries, and these are explained in the Help function and in the Guidelines, the BAW will not be vetting Parts A prior to accepting the declaration form (Part B).

The Part A table may be submitted to the Bureau of Animal Welfare by (in order of preference):

- E-mailing the spreadsheet as an attachment to: alan.fried@dpi.vic.gov.au Please put the name and or number of the licence in the subject line.
- Putting the spreadsheet onto a CD ROM and mailing to the following address (Not MAC users).

The Parts B and C Forms must be submitted by mail.

Due to continued difficulty with compliance in this matter, penalty infringement notices and fines will be issued to licence holders for failure to submit correct versions of all parts prior to the deadline.

3. QUERIES INCLUDING OBTAINING COPIES OF FORMS

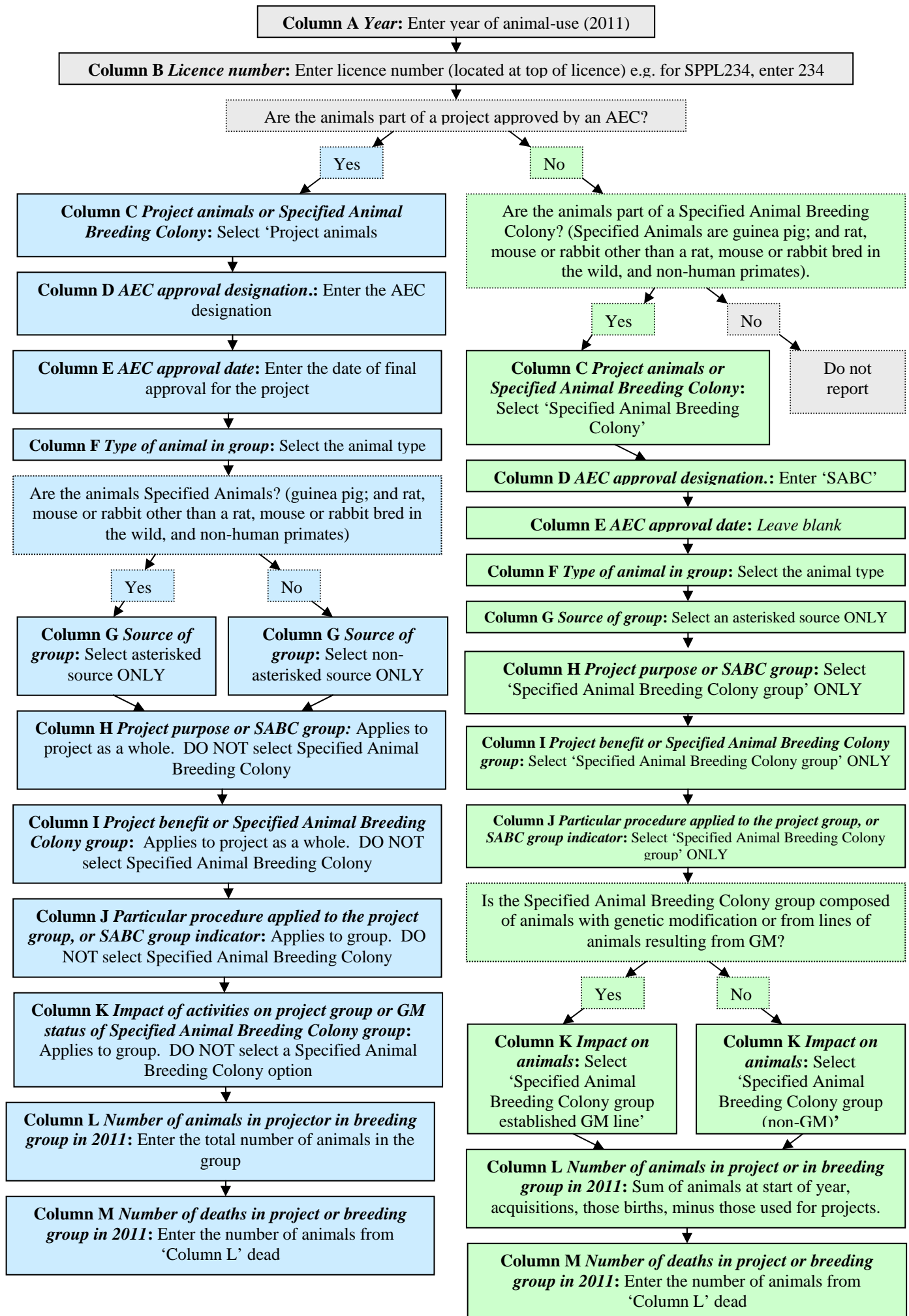
Queries regarding the Animal Use Return and requests for copies of the various forms and other documentation should be directed to Alan Fried.

Bureau of Animal Welfare
475 Mickleham Rd
ATTWOOD VIC 3049

Ph: (03) 9217 4425
Fax: (03) 9217 4416

alan.fried@dpi.vic.gov.au

APPENDIX 1 FLOW CHART FOR COMPLETION OF 2011 ANIMAL USE RETURN SPREADSHEET



APPENDIX 2: CATEGORIES FOR COLUMNS C, F, G, H, I, J, K, L AND M

Shaded sections indicate choices exclusive to and compulsory for Specified Animal Breeding Colony animals

Column C. Animals assigned to an AEC-approved project or animals in a Specified Animal Breeding Colony

<ul style="list-style-type: none"> • AEC-approved project (including development of new GM strains, cloning)
<ul style="list-style-type: none"> • Specified Animal Breeding Colony

Column F. Type of animal in group (* Specified animals)

<p>Laboratory</p> <ul style="list-style-type: none"> • Ferrets (lab) • <u>Guinea pigs*</u> (lab) • Hamsters (lab) • <u>Mice*</u> (lab) • <u>Rabbits*</u> (lab) • <u>Rats*</u> (lab) • Other laboratory mammal (not non-human primate) 	<p><i>Domestic (cont)</i></p> <ul style="list-style-type: none"> • Other domestic <p>Birds</p> <ul style="list-style-type: none"> • Exotic captive • Exotic wild • Native captive • Native wild • Poultry • Other birds 	<p><i>Reptiles (cont)</i></p> <ul style="list-style-type: none"> • Turtles, tortoises • Other reptile <p>Primates</p> <ul style="list-style-type: none"> • <u>Baboons*</u> • <u>Macaques*</u> • <u>Marmosets*</u> • <u>Primates other*</u> <p>Native mammal</p> <ul style="list-style-type: none"> • Dasyurids • Koalas • Macropods • Native Rats, Mice • Possums, Gliders • Wombats • Monotremes • Seals and sealions • Whales and dolphins 	<p><i>Native mammals (cont)</i></p> <ul style="list-style-type: none"> • Other native mammals <p>Exotic feral mammals</p> <ul style="list-style-type: none"> • Camels (wild) • Cats (wild) • Cattle (wild) • Goats (wild) • Hares (wild) • Horses (wild) • Mice (wild) • Pigs (wild) • Rabbits (wild) • Rats (wild) • Wild dogs and foxes • Other exotic feral mammal <p>Zoo</p> <ul style="list-style-type: none"> • Exotic zoo mammal
<p>Domestic mammal</p> <ul style="list-style-type: none"> • Cattle (domestic) • Deer (domestic) • Goats (domestic) • Horses (domestic) • Pigs (domestic) • Sheep (domestic) • Cats (non-wild) • Dogs (non-wild) 	<p>Aquatic</p> <ul style="list-style-type: none"> • Cephalopods • Crustaceans • Fish <p>Amphibia</p> <ul style="list-style-type: none"> • Amphibians <p>Reptiles</p> <ul style="list-style-type: none"> • Lizards • Snakes 		

Column G. Source of group

<p>For specified animals (guinea pig; non-wild bred mouse, rat & rabbit; primate)</p> <ul style="list-style-type: none"> • Own derivation, or • Victoria –Specified Animals Breeding Licence, or • Interstate institution authorised to distribute specified animals • Imported from overseas • Other 	<p><i>All other animals cont</i></p> <ul style="list-style-type: none"> • Commercial supplier • Private donation • Municipal pound • Privately owned animals used on a farm • Animals in their natural habitat • Removed from Australian natural habitat for the project • Australian captive colony/zoo • Other source
<p>All other animals</p> <ul style="list-style-type: none"> • Own derivation 	

Column H. Project purpose or Specified Animal Breeding Colony group

<p>Fundamental purpose of project</p> <ul style="list-style-type: none"> • <u>The understanding of human or animal biology</u> • <u>Maintenance and improvement of human or animal health and welfare</u> • <u>Improvement of animal management or production</u> 	<p><i>Project purpose cont</i></p> <ul style="list-style-type: none"> • <u>The achievement of educational objectives</u> • <u>Environmental objectives</u> <p><u>Specified Animal Breeding Colony</u> (Guinea pig; non-wild bred mouse, rat, rabbit; primate)</p> <ul style="list-style-type: none"> • <u>Specified Animal Breeding Colony group</u>
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Column I. Project benefit or Specified Animal Breeding Colony group

<p>Benefit provided by project</p> <ul style="list-style-type: none"> • Fundamental biology/physiology • Diseases-human • Diseases-animal • Diseases- zoonotic • Environmental monitoring/ecology • Domestic animal management/production • Wildlife management/conservation • Vertebrate pest management • Production of biological products • Xenotransplantation (transplantation of living 	<p><i>Project benefit cont</i></p> <ul style="list-style-type: none"> organs, tissues or cells from one species to another) • Development of techniques- remedial, surgical, diagnostic • Education (demonstration) • Training (student use of animals) • Regulatory product testing (e.g. vaccines, chemical, drug evaluation) <p><u>Specified Animal Breeding Colony animals only</u> (Guineapig, non-wild mouse, rat, rabbit; primate)</p> <ul style="list-style-type: none"> • Specified Animal Breeding Colony group
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Column J. Particular procedure applied to the project group, or Specified Animal Breeding Colony group indicator

<p>Key particular procedures; if not relevant select ‘Other’</p> <ul style="list-style-type: none"> • Attachment or insertion of devices for long term direct or telemetric monitoring • Aversive stimuli for behavioural training, or for inducing a state of stress integral to the experiment • Burning or scalding • Induction of other disease model (e.g. diabetes, cardiac disease) • Gene manipulative technology • Immunomodulatory methods • Induction of infection • Induction of neoplasia • Interference with the central nervous system or sensory capacity or brain centres controlling that capacity 	<p><i>Procedure cont</i></p> <ul style="list-style-type: none"> • <i>In vivo</i> production of monoclonal antibody • <i>In vivo</i> production of polyclonal antibody • Ionising radiation exposure • Neuromuscular blocking agents or electro-immobilisation <p>Ocular irritancy testing</p> <p>Skin irritancy testing involving a chemical, or cosmetic, household, or industrial preparation</p> <ul style="list-style-type: none"> • Toxicity testing • Other procedure <p><u>Specified Animal Breeding Colony animals only</u> (Guineapig, non-wild mouse, rat, rabbit; primate)</p> <ul style="list-style-type: none"> • Specified Animal Breeding Colony group
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Column K. Impact of activities on project group or GM status of Specified Animal Breeding Colony group

<p>Impact of the procedure on the group</p> <ul style="list-style-type: none"> • <u>Observational study involving minor interference</u> • <u>Animal unconscious without recovery</u> • <u>Minor conscious intervention, no anaesthesia</u> • <u>Minor operative procedures with recovery</u> • <u>Surgery with recovery</u> • <u>Minor physiological challenge</u> • <u>Moderate to major physiological challenge</u> 	<p><i>Impact of procedure cont</i></p> <ul style="list-style-type: none"> • <u>Death as an end point</u> - MUST COMPLETE A PART C FORM <p><u>Specified Animal Breeding Colony animals only</u> (Guineapig; non-wild mouse, rat, rabbit; primate)</p> <ul style="list-style-type: none"> • <u>Specified Animal Breeding Colony group (non-GM)</u> • <u>Specified Animal Breeding Colony group established GM line</u>
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Column L. Number of animals in project or breeding group in 2011

Enter the total number of animals in the group or breeding colony during 2011. For Specified Animal Breeding Colony groups, this is the sum of:

- animals at the start of the year;
- animals acquired; and
- animals born,

minus live animals assigned to AEC-approved projects and not returned unused for re-issue.

Column M. Number of deaths in project or breeding group in 2011

Indicate number of dead animals in the scientific procedure group or breeding group during 2011. (i.e. include death as an endpoint, euthanasia, culled project or breeding stock, or unexpected death)

APPENDIX 3 - EXAMPLE OF A COMPLETED PART A, INCLUDING REPORTING OF SPECIFIED ANIMAL BREEDING STOCK

In 2011 licence SPPL301 used mice and rats (specified animals), and fish in 2 AEC-approved projects (Projects 00061 and 00046). In addition, the licence bred mice and rats (specified animals) for use by the licence.

The following table illustrates how the animal use procedures and the breeding of specified animals is to be described. The inclusion of 'group numbers' are illustrative only and should not be included in the submitted worksheet.

	A Year	B Licence no.	C Project or Specified Animal Breeding Colony	D AEC approval no.	E AEC approval date	F Type of animal	G Source	H Purpose of animal use	I Benefit focus of animal use	J Particular procedure	K Impact on animals	L Total used	M All deaths
Group 1	2011	301	AEC-approved project	00061	1/4/2000	Mice	Own derivation	Maintenance human health etc	Diseases human	Other procedure	Animal unconscious without recovery	20	20
Group 2	2011	301	AEC-approved project	00061	1/4/2000	Rats	Own derivation	Maintenance human health etc	Diseases human	Other procedure	Animal unconscious without recovery	75	75
Group 3	2011	301	AEC-approved project	00061	1/4/2000	Rats	Own derivation	Maintenance human health etc	Diseases human	Other procedure	Observational study etc	10	0
Group 1	2011	301	AEC-approved project	00046	27/6/2000	Fish	Commercial supplier	Understanding biology etc	Fundamental biology etc	Other procedure	Animal unconscious without recovery	19	19
Group 2	2011	301	AEC-approved project	00046	27/6/2000	Fish	Commercial supplier	Understanding biology etc	Fundamental biology etc	Other procedure	Minor Physiological challenge	5	0
Group 3	2011	301	AEC-approved project	00046	27/6/2000	Mice	Own derivation	Understanding biology etc	Fundamental biology etc	Other procedure	Animal unconscious without recovery	5	5
Group 1	2011	301	Specified Animal Breeding Colony	SABC	N/A	Mice	Own derivation	Specified Animal Breeding Colony	Specified Animal Breeding Colony	Specified Animal Breeding Colony	Specified Animal Breeding Colony (non-GM)	5,235	293
Group 2	2011	301	Specified Animal Breeding Colony	SABC	N/A	Mice	Own derivation	Specified Animal Breeding Colony	Specified Animal Breeding Colony	Specified Animal Breeding Colony	Specified Animal Breeding Colony established GM line	1,987	183
Group 3	2011	301	Specified Animal Breeding Colony	SABC	N/A	Rats	Own derivation	Specified Animal Breeding Colony	Specified Animal Breeding Colony	Specified Animal Breeding Colony	Specified Animal Breeding Colony established GM line	3,896	221

Procedure animals

- Project 00061 was assigned rats and mice, with similar procedures on all the animals. As such, the project was broken down into 2 groups, one for the mice and one for the rats. However, 10 rats were assigned to but did not undergo procedures. A third line was used to describe these animals with zero in the fate column as these rats was carried-over for future procedures under the project (Group 3).
- Project 00046 was assigned laboratory mice and fish, forming 2 initial groups. In addition 19 fish were killed and 5 recovered from minor operative procedures. To describe this variability the fish group was further split into 2, and ultimately the project was described by 3 groups and lines. A zero was entered under the 'All deaths' Column M for group 2, to indicate that no animals died or were killed in this group.

Specified Animal Breeding Colony groups

The licence bred and used for breeding non-GM mice, and mice and rats from established GM strains:

Project or Specified Animal Breeding Colony Column C: 'Specified Animal Breeding Colony' is selected indicating specified animals kept as a general breeding colony for stock animals, rather than animals used in a project of scientific procedures.

AEC approval Columns D and E: in place of the AEC approval number "SABC" was entered. N/A was included in the Date of approval column.

Source Column G: Own derivation (specified animals) is entered for all lines.

Purpose, Benefit and Particular procedure Columns H, I, and J: "Specified Animal Breeding Colony" is selected in each. These are the only choices available to breeding stock animals for these columns.

Impact column K: One group of mice and the rats produced by SABL301 were breeding from established GM animals. "Specified Animal Breeding Colony established GM line" has been selected for these. 'Specified Animal Breeding Colony (non-GM)' was selected for the non-GM strain mice group.

Total used Column L: numbers entered refer to the breeding-stock animals. Progeny assigned to scientific procedure projects are not included in the Specified Animal Breeding Colony numbers.

All deaths Column M: the number of animals culled or died while in the breeding program is indicated for each of the 3 groups (i.e. of the numbers in Column L). This does not include the fate of animals once they have left the breeding colony and are assigned to scientific procedures projects.

VICTORIAN BUREAU OF ANIMAL WELFARE 2011 ANIMAL USE RETURN

DROPDOWN BOX-LISTS FROM PART A FORM (EXCEL SPREADSHEET)

Shaded sections indicate choices exclusive to and compulsory for Specified Animal Breeding Colony animals

Column C. Animals assigned to an AEC-approved project or animals in a Specified Animal Breeding Colony

<ul style="list-style-type: none"> • AEC-approved project (including development of new GM strains, cloning)
<ul style="list-style-type: none"> • Specified Animal Breeding Colony

Column F. Type of animal in group (* Specified animals)

<p>Laboratory</p> <ul style="list-style-type: none"> • Ferrets (lab) • <u>Guinea pigs*</u> (lab) • Hamsters (lab) • <u>Mice*</u> (lab) • <u>Rabbits*</u> (lab) • <u>Rats*</u> (lab) • Other laboratory mammal (not non-human primate) 	<p><i>Domestic (cont)</i></p> <ul style="list-style-type: none"> • Other domestic <p>Birds</p> <ul style="list-style-type: none"> • Exotic captive • Exotic wild • Native captive • Native wild • Poultry • Other birds 	<p><i>Reptiles (cont)</i></p> <ul style="list-style-type: none"> • Turtles, tortoises • Other reptile <p>Primates</p> <ul style="list-style-type: none"> • <u>Baboons*</u> • <u>Macaques*</u> • <u>Marmosets*</u> • <u>Primates other*</u> <p>Native mammal</p> <ul style="list-style-type: none"> • Dasyurids • Koalas • Macropods • Native Rats, Mice • Possums, Gliders • Wombats • Monotremes • Seals and sealions • Whales and dolphins 	<p><i>Native mammals (cont)</i></p> <ul style="list-style-type: none"> • Other native mammals <p>Exotic feral mammals</p> <ul style="list-style-type: none"> • Camels (wild) • Cats (wild) • Cattle (wild) • Goats (wild) • Hares (wild) • Horses (wild) • Mice (wild) • Pigs (wild) • Rabbits (wild) • Rats (wild) • Wild dogs and foxes • Other exotic feral mammal <p>Zoo</p> <ul style="list-style-type: none"> • Exotic zoo mammal
<p>Domestic mammal</p> <ul style="list-style-type: none"> • Cattle (domestic) • Deer (domestic) • Goats (domestic) • Horses (domestic) • Pigs (domestic) • Sheep (domestic) • Cats (non-wild) • Dogs (non-wild) 	<p>Aquatic</p> <ul style="list-style-type: none"> • Cephalopods • Crustaceans • Fish <p>Amphibia</p> <ul style="list-style-type: none"> • Amphibians <p>Reptiles</p> <ul style="list-style-type: none"> • Lizards • Snakes 		

Column G. Source group

<p>For specified animals (guinea pig; non-wild bred mouse, rat & rabbit; primate)</p> <ul style="list-style-type: none"> • Own derivation, or • Victoria –Specified Animals Breeding Licence, or • Interstate institution authorised to distribute specified animals • Imported from overseas • Other 	<p><i>All other animals cont</i></p> <ul style="list-style-type: none"> • Commercial supplier • Private donation • Municipal pound • Privately owned animals used on a farm • Animals in their natural habitat • Removed from Australian natural habitat for the project • Australian captive colony/zoo • Other source
<p>All other animals</p> <ul style="list-style-type: none"> • Own derivation 	

Column H. Project purpose, or Specified Animal Breeding Colony group

<p>Fundamental purpose of project</p> <ul style="list-style-type: none"> • The understanding of human or animal biology • Maintenance and improvement of human or animal health and welfare • Improvement of animal management or production 	<p><i>Project purpose cont</i></p> <ul style="list-style-type: none"> • The achievement of educational objectives • Environmental objectives <p>Specified Animal Breeding Colony only (Guinea pig; non-wild bred mouse, rat, rabbit; primate)</p> <ul style="list-style-type: none"> • Specified Animal Breeding Colony group
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Column I. Project benefit or Specified Animal Breeding Colony group

<p>Benefit provided by project</p> <ul style="list-style-type: none"> • Fundamental biology/physiology • Diseases-human • Diseases-animal • Diseases- zoonotic • Environmental monitoring/ecology • Domestic animal management/production • Wildlife management/conservation • Vertebrate pest management • Production of biological products • Xenotransplantation (transplantation of living 	<p><i>Project benefit cont</i></p> <ul style="list-style-type: none"> organs, tissues or cells from one species to another • Development of techniques- remedial, surgical, diagnostic • Education (demonstration) • Training (student use of animals) • Regulatory product testing (e.g. vaccines, chemical, drug evaluation) <p>Specified Animal Breeding Colony animals only (Guineapig, non-wild mouse, rat, rabbit; primate)</p> <ul style="list-style-type: none"> • Specified Animal Breeding Colony group
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Column J. Particular procedure applied to the project group, or Specified Animal Breeding Colony group indicator

<p>Key particular procedures; if not relevant select 'Other'</p> <ul style="list-style-type: none"> • Attachment or insertion of devices for long term direct or telemetric monitoring • Aversive stimuli for behavioural training, or for inducing a state of stress integral to the experiment • Burning or scalding • Induction of other disease model (e.g. diabetes, cardiac disease) • Gene manipulative technology • Immunomodulatory methods • Induction of infection • Induction of neoplasia • Interference with the central nervous system or sensory capacity or brain centres controlling that capacity 	<p><i>Procedure cont</i></p> <ul style="list-style-type: none"> • <i>In vivo</i> production of monoclonal antibody • <i>In vivo</i> production of polyclonal antibody • Ionising radiation exposure • Neuromuscular blocking agents or electro-immobilisation <p>Ocular irritancy testing Skin irritancy testing involving a chemical, or cosmetic, household, or industrial preparation</p> <ul style="list-style-type: none"> • Toxicity testing • Other procedure <p>Specified Animal Breeding Colony animals only (Guineapig, non-wild mouse, rat, rabbit; primate)</p> <ul style="list-style-type: none"> • Specified Animal Breeding Colony group
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Column K. Impact of activities on project group or GM status of Specified Animal Breeding Colony group

<p>Impact of the procedure on the cohort</p> <ul style="list-style-type: none"> • Observational study involving minor interference • Animal unconscious without recovery • Minor conscious intervention, no anaesthesia • Minor operative procedures with recovery • Surgery with recovery • Minor physiological challenge • Moderate to major physiological challenge 	<p><i>Impact of procedure cont</i></p> <ul style="list-style-type: none"> • Death as an end point - MUST COMPLETE A PART C FORM <p>Specified Animal Breeding Colony animals only (Guineapig; non-wild mouse, rat, rabbit; primate)</p> <ul style="list-style-type: none"> • Specified Animal Breeding Colony group (non-GM) • Specified Animal Breeding Colony group established GM line
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Column L. Number of animals in project or breeding group in 2011

Enter the total number of animals in the cohort or breeding colony during 2011. For Specified Animal Breeding Colony groups, this is the sum of:

- animals at the start of the year;
- animals acquired; and
- animals born,

minus animals assigned to AEC-approved projects and not returned unused for re-issue.

Column M. Number of deaths in project or breeding group in 2011

Indicate number of dead animals in the scientific procedure cohort or breeding group during 2011. (i.e. include death as an endpoint, euthanasia, project animals or breeding stock that is culled, or unexpected death)