

HUSBANDRY MANUAL FOR

TAXONOMY AND BIOLOGY

TAXONOMY

Common Name

For insects, only those listed in Ian Naumann, 1993, CSIRO Handbook of Australian Insect Names, should be used

Scientific Name**Order / Family****Recent Synonyms****Other Common Names**

Include a suggested common name if no other name available, and note the source of the suggested name

STATUS

ASMP Category

Is the species part of an Australasian Species Management Program?

IUCN Category**EA Category**

State protection

Threatened status

EA/state requirements/permits for movement or transfer

NZ and PNG Categories and legislation**Wild Population Management**

Relevant only if the species is threatened and being managed

Species Co-ordinator

Not currently applicable for invertebrates

Studbook Holder

Not currently applicable for invertebrates

NATURAL HISTORY

1.1 Description**1.2 Known Distribution**

Include map if possible

1.3 Habitat

Temperament

Feeding

Drinking

Nocturnal

Social structure

Vocalisation or other calls

1.4 General Habits

1.5 Wild Diet

1.6 Breeding Behaviour

Group size
Sex ratios
Season
Courtship
Breeding sites
Gestation
Incubation length
Clutch size
Survival rates

1.7 Development of Young

Birth weights
Growth curves
Age at final moult/sexual maturity

1.8 Adult Weights and measurements (range)

1.9 Longevity (maximum and average)

1.10 Diseases in the Wild

CAPTIVE HUSBANDRY

HOUSING REQUIREMENTS

2.0 Housing: Exhibit & Off Exhibit (for both larval and adult stages)

Design
Materials
Position
Substrate

2.1 Housing Conditions (for both larval and adult stages)

Include microclimates within the enclosure
Water
Heating
Cooling
Humidity
Lighting
Ventilation
Filtration

2.2 Cage Furnishings

Display boards and signage
If the enclosure is a small tank, include suitable and unsuitable plant species
Include furnishings such as rocks, logs, half-pots etc

2.3 Spatial Requirements (EAPA regulations not applicable)

Optimal animal densities, both on and off display

HEALTH REQUIREMENTS

3.0 Quarantine Periods

Particularly relating to overseas importations, note the level of quarantine and other conditions required

3.1 Vet Procedures

*Include any published or anecdotal notes on clinical entomology
Euthanasia*

3.2 Known Health Problems and other Problems

*Diseases, especially viruses
Problems caused by overcrowding
Deformity rates from pupation and moulting
For each symptom, note the pathogen/disease and probably cause*

3.4 PM results

3.5 Cleaning Routine

3.6 Enclosure Maintenance

3.7 Animal Records and Routine Checks

*Include any provenance issues for each species
Include data sheet format for recording behaviours, breeding etc*

BEHAVIOURAL NOTES

4.0 General Behaviour

*Including territorial behaviour
Behavioural problems as they relate to biological problems or problems with the animals' conditions (eg restlessness, lethargy etc)*

4.1 Mixed Species Compatibilities

*Particularly in regard to predation
Include any compatible vertebrate species*

4.2 Behavioural Enrichment Ideas

4.3 Animal Introduction

FEEDING REQUIREMENTS

5.0 Diets and Supplements

Artificial diets for larval stages
Artificial diets for adults
Pupal weights and deformity rates for each type of food as a comparison between fitness of food types
Number of food plants required per animal

5.1 Preparation and Presentation of Food

5.2 Dietary Changes

5.3 Feeding Regime

5.4 Plant propagation; for each species, note:

Common name and scientific name
Distribution and source of seed/cuttings
Growing season
Propagation (seed, cuttings, suckering, layering etc)
Plant description (shrub, vine, erect, perennial, annual, woody, prostrate etc)
Growing notes (watering regime, potting mix, fertilising regime etc)
Plant pests and diseases
Weed potential

CAPTURE, RESTRAINT AND TRANSPORT

6.0 Capture Equipment and Methodology

The best handling method for the safety of the animals as well as the handler
The best method for luring and trapping stray animals
The best method for collecting in the field

6.1 Handling and Restraint

Toxins and their effects (including urticating hairs, irritating scales etc)
First aid for bites and stings

6.2 Health Checks, weighing, measuring

Weights should be measured to 0.01g
Measurements should be taken with callipers where appropriate

6.3 Transport Equipment

Postal regulations (for live spiders etc)
Equipment for each stage of the life cycle (if appropriate)
For general transport practices, refer to the Transport Manual

CAPTIVE PROPOGATION

7.0 Enclosure Modifications / Specifications

7.1 Season & Behaviour

7.2 Diet Changes

7.3 Gestation, Laying Period and Incubation

7.4 Fecundity

Clutch size
Sex ratio

7.5 Development of Young

Birth weight
Growth curves
Length of each instar and pupal period
Age at sexual maturity
Age at removal from parent(s)
Min. and max age of breeding
Longevity in captivity (maximum and average)

7.6 Propagation techniques

Captive breeding routine
Breeding on or off display
Note factors that may limit breeding

APPENDICES

Manufacturers

Relevant equipment and suppliers (eg Australian Entomological supplies)

Field Researchers

Taxonomists
Experts at propagation or mass rearing
General experts on each species

Opportunities for research

Literature Cited

Where held

List of breeders that hold each species, both in Australasia and overseas

Legislation

Any legislation relevant to each species in each country and state

Name of compiler

Date reviewed