



2020
waterfowl
conservation
workshop





Regional collection planning & “new-style” EEPs

- EAZA breeding programmes have changed in their design.
- All TAG groups will now meet (or have already met) to discuss the future of programmes.
- The process begins with a work-shop to evaluate the species in the remit.





EUROPE

Workshop participants

Name	Organisation	Function
Bernd Marcordes	Cologne Zoo	TAG chair
Peter Smallbones	Paignton Zoo	TAG vice-chair
Johnpaul Houston	Pending	TAG vice-chair
William van Lint	EAZA Executive Office (The Netherlands)	Manager Animal Programmes and Conservation / Facilitator
Raymond van der Meer	EAZA Executive Office (The Netherlands)	Manager Population Management Centre /Facilitator
Maaïke Voorham	EAZA Executive Office (The Netherlands)	Assistant Population Biologist / Support
Cathy King	Lagos	TAG member
Lois Rowell	Torquay	TAG member
Georgina Barnes	Longleat	TAG member
Glyn Young	Jersey	IUCN Threatened Waterfowl SG
Phoebe Vaughan	WWT Slimbridge	Aviculture warden
Sam Halpin	WWT Arundel	Collection Manager
Keith Lovett	Buttonwood Park Zoo	AZA Anseriformes TAG chair
Observers		
Jo Gregson	Paignton	EAZA Charadriiformes TAG vice chair / EAZA Ratite TAG vice chair
Steve Nash	Paignton	EAZA Executive Office programme liaison EAZA Education Committee

20/11/2010

New Paradigm: One size does not fit all

- Approved April 2017
- Reflects
 - the current breadth of population management activities
 - the needs of EAZA members
 - changes and opportunities within the conservation world at large

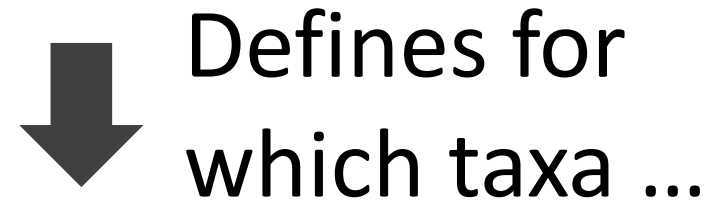


Creating a flexible future

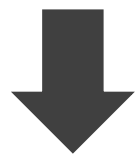
A RECENT EVALUATION OF EEPs CONCLUDED THAT ONE SIZE DOES NOT ALWAYS FIT ALL, AND THAT GREATER FLEXIBILITY COULD BE OUR BEST STRATEGY IN THE FUTURE

Three main pillars • Clearly defined roles for EAZA Ex situ Programmes

Regional Collection Plan



EAZA Ex situ Programme



Long-Term
Management Plan

- One Plan Approach
- IUCN ex situ Guidelines 5-Step decision process
- One name for each taxon that needs proactive management to reach its specified roles (all other taxa monitored by TAG)
- Flexibility to create more tailor-made EEPs where required (participants, governance and general biological characteristics)
- Where relevant *in* and *ex situ* experts
- Genetic and demographic goals
- Action plan for next ~5 years to reach all roles and goals

Transition phase: JAN 2018 – DEC 2022

Priorities

Development of RCPs with 5 step process for all TAGs

Transformation of present (“old style”) EEPs, ESBs and Mon-P into “new style” EEPs (and monitoring the rest)

- Number of Long Term Management Plans during the transition phase will depend on additional staff capacity made available
- Approval of new ESBs and EEPs (“old style”) will be discontinued as per 1 January 2018
- Current programme rules apply until a programme has transitioned from “old style” to “new style”



Focus of this workshop

Regional **C**ollection **P**lan



Defines for
which taxa ...

Eaza **E**x situ **P**rogramme
application

- Clearly defined roles for EAZA Ex situ Programmes
 - One Plan Approach
 - IUCN ex situ Guidelines 5-Step decision process

- Flexibility to create more tailor-made EEPs where required (participants, governance and general biological characteristics)

Regional scope of this RCP: EAZA region

Taxonomic scope TAG (HBW)

- ***Anseriformes***
 - *Anatidae* - ducks, geese, swans
 - *Anseranatidae* – magpie goose
 - *Anhimidae* - screamers
- ***Pelecaniformes*** (only *Pelecanidae* - pelicans)
- ***Suliformes***
 - *Sulidae* - gannets, boobies
 - *Fregatidae* - frigatebirds
 - *Phalacrocoracidae* - cormorants
 - *Anhingidae* - darters
- ***Podicipediformes*** (*Podicipedidae* - grebes)
- ***Gaviiformes*** (*Gaviidae* – loons/divers)
- ***Phaethontiformes*** (*Phaethontidae* – tropicbirds)
- ***Procellariiformes*** (*Oceanitidae*, *Hydrobatidae*, *Diomedidae*, *Procellariidae* – Albatrosses, Petrels etc.)

Species selection

- In support of the Waterfowl and Pelecaniformes TAG ‘vision’ :
 - Focus on conservation depending species
 - Prioritise species in Asia
 - Reflect importance of conservation education
- Transform current EEPs/ESBs to the new style
- Realistic about available resources (staff, time, space – linked to pinioning)
- AZA Waterfowl/Pelecaniformes TAG RCP priorities
- Guidance IUCN SG recommendations (7 SGs)
a.o. feedback from Threatened Waterfowl SG and Pelican SG.



‘Future prospects of commonly kept pinioned bird species in EAZA collections’ (Dekker, 2016).

The report made clear that waterfowl collections are clearly impacted by the institutional ambitions to work towards the EAZA Standards (EAZA, 2014) and move away from pinioning versus the growing legislative limitations towards pinioning. For that reason clear guidance from the TAG was needed regarding priority species.

Species selection

Anseriformes:

- Existing EEP/ESB programmes
(individual assessments)
- Endangered (incl. NT) with ex-situ population
(individual assessments)
- Endangered without ex-situ population
(take guidance/input from TWSG)
- Not Endangered with ex-situ population
(review all, few individual assessments)
- Not Endangered without ex-situ population
(no review - Mon-T DNO)

Species selection

Pelicans/cormorants

- selection as Anseriformes, take guidance/input from resp. IUCN Specialist Group

Sulidae (gannets, boobies)

- only review the species in captivity (**Northern gannet**), remaining species not in captivity, 2 species VU/EN, no IUCN SG.

Prodicipedidae (grebes)

- only review the species in captivity (>10 ind.)(**Little grebe**): 23 species, remaining species not in captivity, 3 extinct, 2 CR, 2 EN, 1 VU, no IUCN SG.

One Plan Approach for species conservation

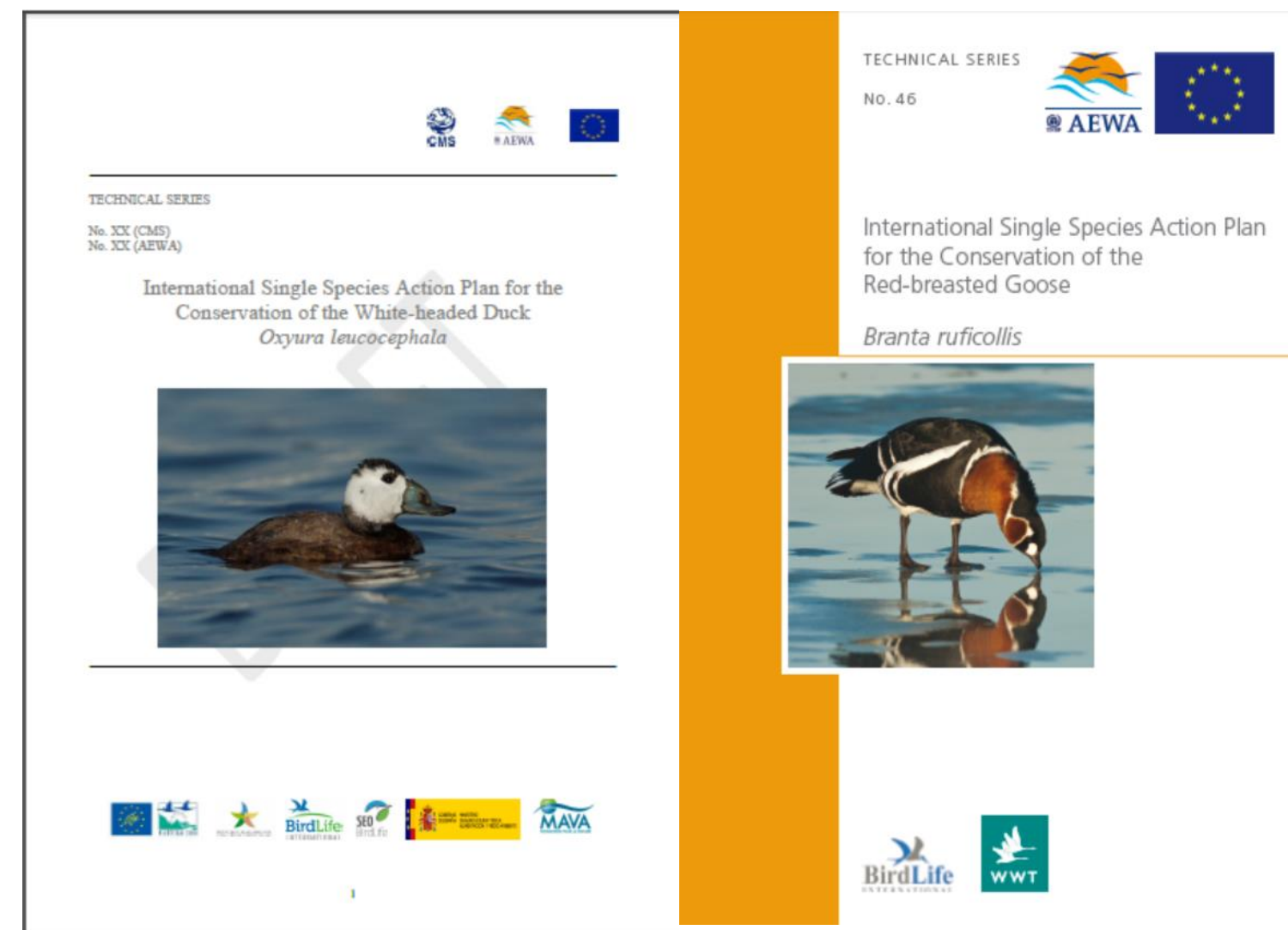
1. In situ and ex situ specialists together decide what is required to save a species
 - Checked existing action plans for ex situ recommendations
 - Approached relevant SGs, for guidance/input (Threatened Waterfowl SG, Pelican SG and Cormorant SG)



EAAFP Scaly-sided Merganser Single Species Action Plan
This Single Species Action Plan has been prepared to assist fulfilment of obligations under:
Convention on the Conservation of Migratory Species of Wild Animals (CMS)
East Asian – Australasian Flyway Partnership
International Action Plan for the Conservation of the Scaly-sided Merganser *Mergus squamatus*, 2016–2025



CMS Technical Series No. #
EAAFP Technical Series No. #
January 2017



One Plan Approach – key elements

1. In situ and ex situ specialists together decide what is required to save a species
2. They take into account
 - Status of in situ and ex situ populations
 - Potential roles for ex situ management in the conservation of the species



RCP process to define potential

- Direct conservation roles
- Indirect conservation roles
- Non-conservation roles

of taxa under consideration

RCP workflow based on Ex situ guidelines

5 STEPS:

1. Gather information on in situ status and threats and ex situ status
2. Determine the potential role of ex situ management
3. Determine the characteristics of the program needed to deliver the role(s)
4. Assess benefit, feasibility and risk
5. Decisions/recommendations:
 - a) Benefits vs. challenges and risk
 - b) EEP or a form of MON-T



STEP 1: Status assessment and threat analysis in situ and ex situ

Waterfowl and Pelecaniformes RCP - 2018

Baer's pochard

Aythya baeri

Current management level: **ESB**

1. Status in the wild

Global IUCN Red List status: **CR**

Global IUCN Red List population trend: **Decline**

Inclusion in EU Habitat or Bird directive Appendices: **N/A**

CITES listing (global and EU): **N/A**

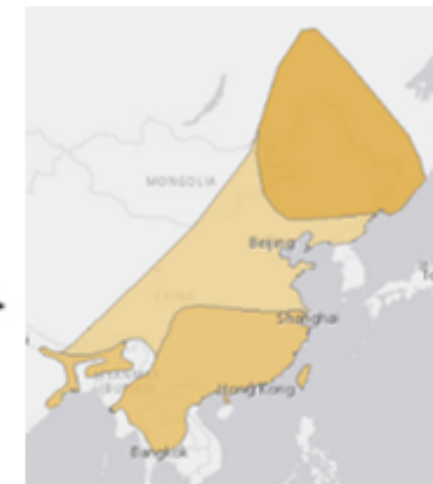
Convention on the Conservation of Migratory Species of Wild Animals (CMS) listing: **Appendix I**

Any other species specific listing if relevant: **Asian Species Action Partnership (ASAP)**

Range description: Breeds from the Amur and Ussuri basins in Russia southwards to the central and lower Yangtze floodplain in central-eastern China; Mainly winters in China. Populations have become increasingly sparse with total numbers estimated to be less than 1000.

2. Threats

Main threats to this species in the wild:



STEP 1: Status assessment and threat analysis in situ and ex situ



Waterfowl and Pelecaniformes RCP - 2018

3. Ex situ status

The numbers in this table are based on ZIMS entries (December 2018), no ex situ programmes are known for this species**.

<u>Anser canagicus</u> / Emperor goose	EAZA Members	Other individuals in EAZA region	AZA members North America	Other individuals in North America	Africa	Asia	Oceania	South America	Total Global Ex Situ Population
Population size (m.f.u.)	29.27.9 (65)	21.21.5 (47)	19.15.0 (34)	18.12.0 (30)	0.0.0 (0)	1.1.0 (2)	0.0.0 (0)	0.0.0 (0)	88.76.14 (178)
# Institutions	28	9	9	1	0	1	0	0	48
Management level	-	-	-	-	-	-	-	-	-
Data source	ZIMS Husbandry 06 December 2018								

M.F.U. = number of males, females, unknown sex

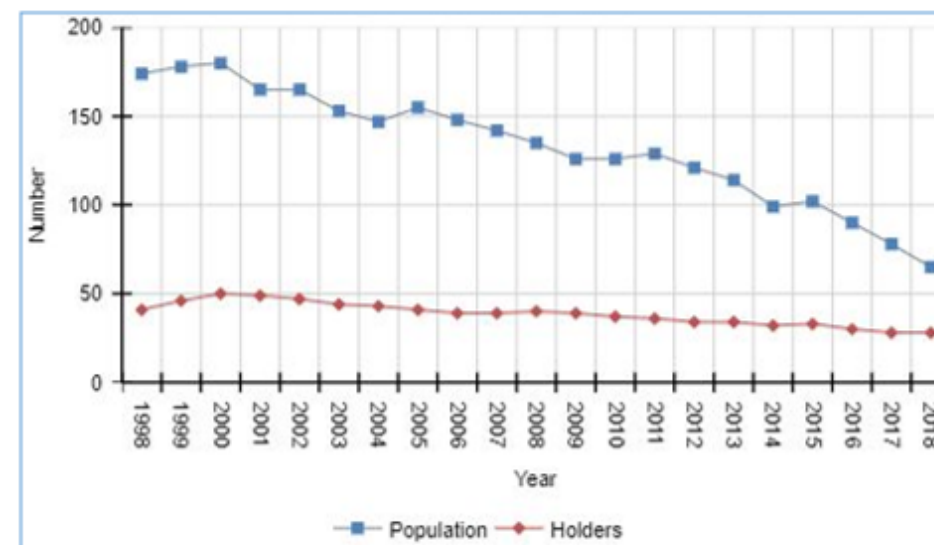
* If this is an EAZA managed programme, this includes all the institutions that are part of the managed programme, which may include some non-EAZA institutions. A list of the non-EAZA participating institutions can be found at the end of this species assessment sheet. For ESBs, MON-Ps or non-programs this only includes EAZA members.

** If this is an EAZA RCP we will contact the other regions for existing analysis of existing programmes (eg. studbook publications, or Breeding and Transfer plans, or annual reports, or survey reports) but we will not request datasets and do our own analysis for populations in other regions.

EAZA population census:

Growth rate (lambda)*	last 5 years	last 20 years
Actual	0.896	0.954
Based on Births and Deaths	0.922	0.933
Based on Acquisitions and Dispositions	0.983	1.039
Data source: ZIMS Husbandry Population Overview 06 December 2018		

*This lambda is based on the average of the yearly growth rate based on the numbers for the EAZA population from the Population Overview from ZIMS for Husbandry.



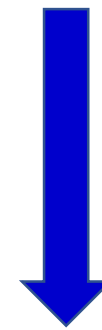
STEP 2: Potential roles for ex situ management

Roles

- Direct conservation roles
- Indirect conservation roles
- Non-conservation roles

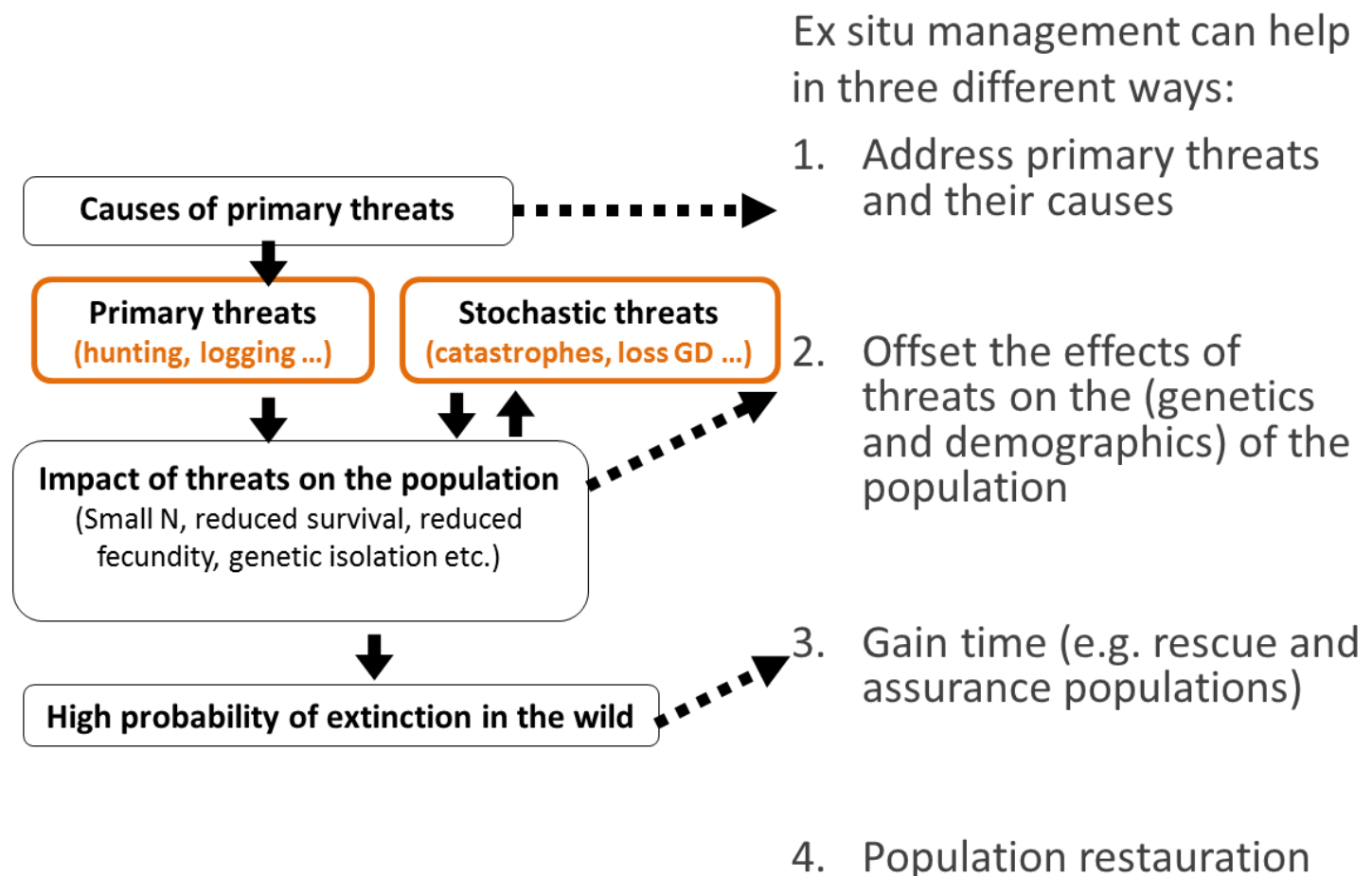
} From in situ experts
From existing action plans

} Discuss
at workshop



List of potential roles

Where in the taxon's threat process might the tool be of use



Direct Conservation roles

(= Toolbox)

- Ark
- Rescue (temporary or long term)
- Insurance
- Demographic manipulation
- Population restoration (source)
- Ecological replacement
- Assisted colonisation
- Research and/or training
- Education or awareness that addresses specific threats or constraints

STEP 3: Programme characteristics

STEP 4: Benefits, Feasibility, Risks

STEP 5: Final selection of roles (if any)

Conservation roles for ex situ management

Indirect Role(s)	Programme characteristics required	Benefit	Feasibility	Risk	Role recommended?	Can EAZA deliver this role?	Notes
(EXAMPLE) Education (non-range)	Requires good attractive exhibits to improve image and a targeted education effort	HIGH	HIGH	LOW	Yes	Yes/No/only in collaboration with ...	Help improve public perception of hyenas (as worth saving) and channel carnivore conservation funding towards hyenas as well (all species)

Non-conservation roles for ex situ management

In contrast to the non-conservation roles, each column in this table should be completed specifically limited to EAZA.

Other Role(s) (in/for EAZA)	Programme characteristics required (in EAZA)	Benefit to EAZA comm.	Feasibility in/by EAZA comm.	Risk for/within EAZA	Role recommended in/for EAZA	Can EAZA deliver this role?	Notes
EXAMPLE Particularly attractive species: engaging, distinctive, active, noisy, colourful	Natural groups in large exhibits	HIGH	MODERATE	LOW	Secondary role	Yes	Public engagement benefit

RCP categories

- EEP: needs proactive management to reach its role(s)
- All other taxa are monitored by the TAG:
 - MONT-T REPLw
 - MON-T Phase out
 - MON-T DNO
 - MON-T

→ Final overall check: Is it feasible to implement all recommended EEPs!

TAG members

TAG chair Bernd Marcordes | Cologne Zoo

TAG vice chair Peter Smallbones | Paington Zoo

TAG vice chair Johnpaul Houston | Pending

Programme coordinators and Mon-P (alphabetic order, surname)

Anna Kazazou | Attica | White-fronted goose

Georgina Barnes | Longleat | Pink-backed pelican ESB

Agnieszka Mech | Poznan | Dalmatian pelican EEP

Martin Kaiser | Berin_Tierpark | Little pied cormorant ESB

Cathy King | Lagos | Seaducks and Hawaiian Duck

Joost Lammers | Alphen | Screamers

William van Lint | EAZA Executive Office | White-winged duck ESB

Fleming Nielsen | Copenhagen | Pygmy geese

Pending | Blackpool | Scaly-sided merganser ESB

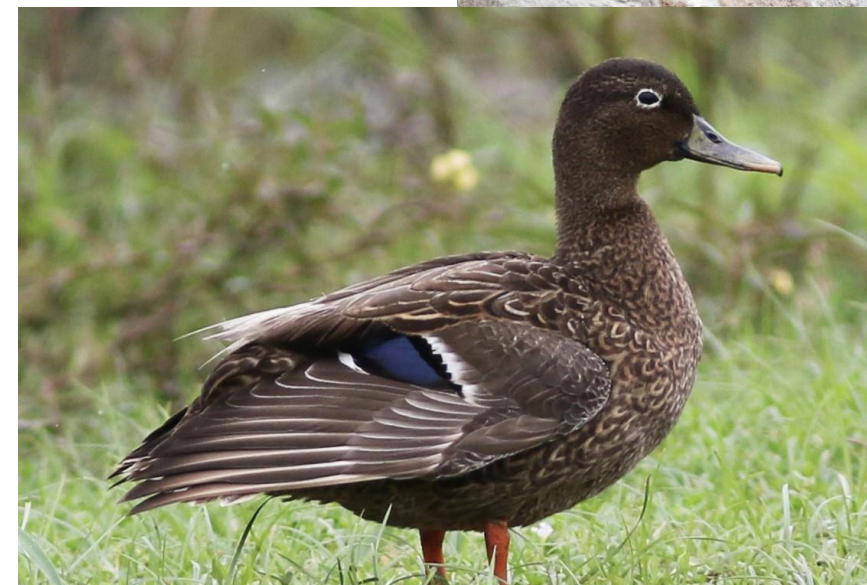
Tobias Rahde | Berlin_Zoo | Red-breasted geese

Lois Rowell | Torquay | Bank cormorant

Nigel Simpson | Bristol_wildplace | Philippine duck and marbled teal

Peter Smallbones | Paignton | Bear's pochard ESB

Harriet Whitford | Jersey | Mellers duck EEP, Madagascar teal





Grebe (lumped)

Little grebe

Tachybaptus ruficollis spp.

EEP (incl. all grebe species in
captivity)

Anas melleri

Meller's duck



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
<i>Anseriformes</i> – Former programmes (EEPs/ESBs)							
Meller's duck	<i>Anas melleri</i>	EN	157 (28)	<u>Insurance</u>	<u>Conservation</u> <u>Education</u> <u>Research (Best Practice)</u>		EEP

EEP: Harriet Whitford, Jersey

Asarcornis scutulata

White-winged duck



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
<i>Anseriformes</i> – Former programmes (EEPs/ESBs)							
White-winged duck	<i>Asarcornis scutulata</i>	EN	64 (22)	<u>Rescue (locally), Insurance, Conservation Education, Research (Avian TB, training)</u>	<u>Research (husbandry)</u>		EEP

EEP: William van Lint, EAZA-Office

Aythya baeri

Baer's pochard



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
<i>Anseriformes</i> – Former programmes (EEPs/ESBs)							
Baer's pochard	<i>Aythya baeri</i>	CR	133 (20)	<u>Insurance</u> , <u>Conservation</u> <u>Education</u>	<u>Fund-raising</u> , <u>Model species</u> , <u>Conservation Education</u>		EEP

EEP: Peter Smallbones, Paignton

Mergus squamatus

Scaly-sided merganser



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Anseriformes – Former programmes (EEPs/ESBs)							
Scaly-sided merganser	Mergus squamatus	EN	6 (3)	<u>Insurance</u> , <u>Training</u> , <u>Research</u>	<u>Research (husbandry)</u> , <u>fund-raising</u> , <u>Model species</u>		EEP (in collaboration with AZA/WW T)

EEP: Blackpool, Johnpaul Houston

Anas bernieri

Madagascar teal



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Anseriformes - Endangered with ex-situ population (>10 individuals in EAZA region)							
Madagascar teal	Anas bernieri	EN	162 (36)	<u>Insurance</u>	<u>Conservation</u> <u>Education</u>		EEP

EEP: candidate Simon James, Jersey

Seaducks



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Anseriformes - Endangered with ex-situ population (>10 individuals in EAZA region)							
Long-tailed duck	Clangula hyemalis	VU	7 (1)	<u>Conservation Education</u>	<u>Research (work on Best Practice), Model species</u>	Exhibit value	EEP (seaducks)

EEP: Candidate Sam Halpin (Paignton/ WWT Arundel)

Marmaronetta angustirostris

Marbled Teal



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
<i>Anseriformes</i> - Endangered with ex-situ population (>10 individuals in EAZA region)							
Marbled teal	<i>Marmaronetta angustirostris</i>	VU	228 (30)	<u>Population Restoration (locally), Insurance, Conservation Education</u>			EEP

EEP: vacant (Nigel Simpson, Wild Place?)

Oxyura leucocephala

White-headed duck



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Anseriformes - Endangered with ex-situ population (>10 individuals in EAZA region)							
White-headed duck	<i>Oxyura leucocephala</i>	EN	88 (13)	<u>Population Restoration (locally), Insurance, Conservation Education</u>	<u>Research (Best Practice)</u>	<u>Exhibit value</u>	EEP

EEP: candidate Matthé Groot, Cologne

Anser erythropus

Lesser white-fronted goose



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
<i>Anseriformes</i> - Endangered with ex-situ population (>10 individuals in EAZA region)							
Lesser white-fronted goose	<i>Anser erythropus</i>	VU	106 (20)	<u>Population</u> <u>Restoration,</u> <u>Insurance,</u> <u>Conservation</u> <u>Education</u>			EEP (in consultation with Nordens Ark)

EEP: candidate Anna Kazazou?, Attica

Branta ruficollis

Red-breasted goose



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
<i>Anseriformes</i> - Endangered with ex-situ population (>10 individuals in EAZA region)							
Red-breasted goose	<i>Branta ruficollis</i>	VU	329 (56)	<u>Insurance</u> , <u>Conservation</u> <u>Education</u>	<u>Fund-raising</u>	<u>Exhibit value</u>	EEP (?)

EEP: candidate Tobias Rahde, Zoo Berlin

Cyanochen cyanopterus

Blue-winged goose



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Anseriformes - Endangered with ex-situ population (>10 individuals in EAZA region)							
Blue-winged goose	Cyanochen cyanoptera	VU	27 (14)	<u>Insurance</u>			EEP (in collaboration with AZA)

EEP: candidate Jan Harteman

Pelecanus crispus

Dalmatian pelican



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Pelicans, cormorants, gannets and grebes							
Dalmatian pelican	<i>Pelecanus crispus</i>	NT	588 (59)	<u>Insurance</u> , <u>Conservation</u> <u>Education</u> , <u>Research</u> <u>(veterinary)</u>		<u>Exhibit</u> <u>value</u>	EEP

EEP: Agnieszka Mech, Poznan

Pelecanus rufescens

Pink-backed pelican



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Pelicans, cormorants, gannets and grebes							
Pink-backed pelican	<i>Pelecanus rufescens</i>	LC	205 (26)			<u>Exhibit value, model species</u>	EEP

EEP: Ryan Berry, Longleat

Pelecanus philippensis

Spot-billed pelican



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Pelicans, cormorants, gannets and grebes							
Spot-billed pelican	<i>Pelecanus philippensis</i>	NT	69 (8)	Insurance, Research (veterinary)	Fund-raising	Exhibit value	EEP

EEP: vacant/ Ryan Berry, Longleat

Grebe



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Pelicans, cormorants, gannets and grebes							
Little grebe	<i>Tachybaptus ruficollis</i> spp.	LC	18 (8)		<u>Model species,</u> <u>Conservation</u> <u>Education</u>		EEP (grebes)

EEP: vacant

Microcarbo melanoleuco

Little pied cormorant



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Pelicans, cormorants, gannets and grebes							
Little pied cormorant	<i>Microcarbo melanoleucos</i> spp.	LC	29 (6)				Mon-T

Downgraded to MON-T

Mergus octocetaceus

Brazilian merganser



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Pelicans, cormorants, gannets and grebes							
Brazilian merganser	Mergus octosetaceus	CR	-	Insurance			Mon-T

MON-T

Aythya innotata

Madagascar pochard



Common name	Scientific name	IUCN Red List	EAZA Population size total # in # EAZA zoos	Direct Conservation role(s) recommended for ex situ management	Indirect Conservation role(s) recommended for ex situ management	Non-conservation role(s)	RCP category
Pelicans, cormorants, gannets and grebes							
Madagascar white-eye / pochard	Aythya innotata	CR	-	<u>Population Restoration, Insurance, Conservation Education, Research/Training, Model species</u>			(EEP) Mon-T

MON-T (Simon James, Jersey)

Next steps

- Produce RCP report.
- Work on the EEP applications together with the (nominated) coordinator.
- Start prioritising LTMPs



Thank You For Listening



DIRECTOR

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