

## SUPPLEMENTARY MATERIAL

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### Conservation status and threats to lovebirds: knowledge gaps and research priorities

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Supplementary File S1: Questionnaire distributed to individual researchers and conservation practitioners with relevant expertise in the field to solicit additional pertinent information.

## AFRICAN LOVEBIRDS Conservation Status Questionnaire

Thank you for being part of this important project.

This survey is being conducted on behalf of [Parrot Researchers' Group \(PRG\)](#) as part of an initiative to review the conservation of parrots globally and identify challenges, opportunities and priorities for conservation and research. This review is focused on African Lovebirds *Agapornis* spp., complementing an earlier review published in the journal *Ostrich* focused on the larger parrot species of the African continent '**Martin et al. 2014. Research and conservation of the larger parrots of Africa and Madagascar: a review of knowledge gaps and opportunities**'. Please note that opportunities exist for contributors to become co-authors of the final review. The project is being coordinated by Sascha Dueker.

**Please e-mail completed questionnaires directly to [duekersascha@web.de](mailto:duekersascha@web.de)**

Name:	<input type="text"/>
Institution:	<input type="text"/>
Position:	<input type="text"/>
E-mail:	<input type="text"/>
Telephone:	<input type="text"/>

**1 - Taxon (species or subspecies)**

**2 - Geographical area of expertise** (i.e. area/locality within a country, e.g. province, district, national park, etc., or just the country name if responses pertain to the entire country as a whole):

**3 - Number of years of working experience** in the geographical area of expertise:

**4 - Population/distribution trends** The following map shows current distribution of all 9 lovebird species in Africa with data provided by BirdLife/IUCN (Figure 1). Please use it as a reference when answering questions 4i-iii.

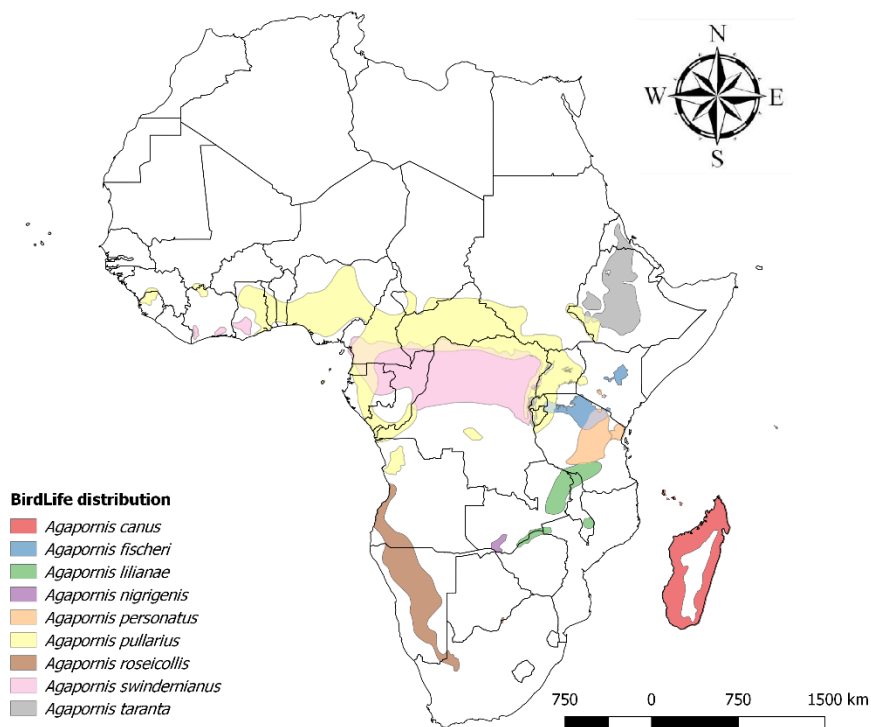


Figure 1. Distribution of all nine *Agapornis* spp. currently recognized by IUCN. Data for distribution maps was provided by BirdLife International 2018. Downloaded on October 18, 2019.

- i) The historical (before 1970), recent (1970-2000) and current (2001 onwards) occurrence and abundance of this species in the geographical area of expertise. Where data allow, please enter the known or estimated population size in each relevant cell; if quantitative data are unavailable please just mark with an 'X' in each relevant cell. Please list any relevant sources for this information.

Period	Occurrence					
	Unknown	Absent	Vagrant	Occasional	Present in fragmented populations	Widespread
<1970						
1970-2000						
2001 onwards						

- ii) Current (2001 onwards) population trends of taxon in the geographical area of expertise; please mark with an 'X' in each relevant cell.

Current Population trend (2001 onwards)						
Unknown	Increasing	Stable	Minor decrease*	Moderate decrease*	Major decrease*	Extreme decrease*

\*Minor decrease - <30% since *ca* 2001

Moderate decrease - 30-49% since *ca* 2001

Major decrease - 50-79% since *ca* 2001

Extreme decrease - >80% since *ca* 2001

- iii) Please name any specific areas in which there has been a local reduction/extinction/increase of a population. Include details on populations in urban areas. Please include any anecdotal information on changes in numbers if available. e.g. 'In the early 1990s I regularly saw flocks 30+ individuals in the XXXX area but when I visited in 2008 local residents reported rarely seeing this species and never in flocks of more than 4.' If possible, provide estimates of approximate population trends following the categories used in 4.ii

**5 - Threats:** What threats face the species in the geographical area of expertise and what is their severity? Please mark with an 'X' in each relevant cell and provide any further details.

	Extent of threat					Details (if more space is needed continue in section 12)
	Unknown	Absent	Minor*	Moderate*	Major*	
<b>TRADE</b>						
Poaching to supply the domestic pet trade						
Poaching to supply the international pet trade						
<b>HUNTING/PERSECUTION</b>						
For food ('bush-meat')						
For traditional medicine/magic/traditional ceremonies						
Persecution as a crop pest						
<b>LOSS OF NEST CAVITIES</b>						
Destruction of nest sites caused by poachers accessing nests						
Due to commercial logging						
Due to increasing pressure from rural population †						
<b>LOSS OF HABITAT</b>						
Due to commercial logging						
Due to large-scale commercial farming						
Due to increasing pressure of rural population						
Due to climate change						

\*Minor threat - impacts on a small proportion of individuals at most and likely does not manifest at the local population level

Moderate threat - impacts on a moderate proportion of individuals and possibly manifests at the local population level

Major threat - impacts on a large proportion of individuals and likely manifests at the local population level

† For example collection of fire wood, building materials, clearance for small-scale/subsistence agriculture

**6 - Conservation/research activities:** Are you or your organization engaged in any of the research/conservation activities listed below relevant to this species?

Activity	Brief details of activities in progress (if more space is needed continue in section 12)
POPULATION MONITORING e.g. compilation of bird checklists that include parrots, bird atlas projects, nest record card schemes, monitoring of breeding attempts etc.	
RESEARCH Research to identify factors limiting populations	
POPULATION MANAGEMENT Activities aimed at directly boosting adult survival or breeding success. e.g. provision of nest boxes, planting of food trees, direct protection of nesting/roosting sites	
COMMUNITY CONSERVATION Activities aimed at finding solutions to threats from poaching, hunting or persecution. e.g. eco-tourism	
ADVOCACY Activities aimed at influencing local or regional policy to promote parrot conservation. e.g. increased regulation of trade	
Other/s:	

**7 - Please list the organizations** (e.g. various national, provincial and local government departments, e.g. those involved in environmental conservation, law enforcement, etc.; parastatals; local, national or international NGOs (including bird clubs); traditional authorities; traditional medicine practitioners; agricultural bodies; veterinary bodies; corporates; universities; museums; etc.) in your geographical area of expertise that you feel are directly relevant in the local conservation of parrots. Please also provide their contact details and rank them in order of their importance and relevance to local parrot conservation, from the highest priority ('1') to the lowest priority:

Organization	Contact person	E-mail	Tel. no.	Rank

**8 - Important sources** of published/printed information on this species in the geographical area of expertise informing the entries made above, i.e. scientific journals, popular magazines, newsletters, newspaper articles, technical reports, books, etc. Most valuable would be information on more obscure and local sources rather than high-profile publications more obvious to the project:

Author/s	Date	Title	Journal/Publisher	Page numbers

**9 - Important unpublished sources** of information on the species in the geographical area of expertise informing the entries made above, e.g. personal observations, unpublished data, personal communications from other observers (please provide contact details), etc.:


**10 - Important digital sources** of information on parrots relevant to the geographical area of expertise informing the entries made above, e.g. websites, e-newsletters, e-newsgroups, etc.:


**11 - Contact details of other relevant parties** to whom you feel this questionnaire should be sent:

Name	Organization	E-mail	Tel. no.

**12 - Any additional comments** relevant to lovebird conservation highlighting research gaps in your geographical area of expertise:

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