Supplementary Information

Research and conservation of the larger parrots of Africa and Madagascar: a review of knowledge gaps and opportunities

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Ostrich 2014, 85(3): 205–233. <http://dx.doi.org/10.2989/00306525.2014.948943>

Supplementary File S1: Questionnaire sent to individuals and organisations involved with parrot research and conservation soliciting information on conservation status and opinions on threats, and priority actions for research and conservation within their area of expertise. Categories for scope, severity and impact of different threats adapted from the IUCN-CMP Unified Classification of Direct Threats version 3.1

THE CONSERVATION STATUS OF AFRICAN PARROTS

This survey is being conducted as part of an initiative of the Parrot Researchers Group (PRG) / Research Coordination Committee on Parrots (RCCP) of the International Ornithologists' Union (IOU), to review the conservation status of African Parrots and identify conservation and research priorities.

Your assistance is greatly appreciated and your contribution will be acknowledged in all reports.

Please e-mail completed questionnaires to prgafrika@gmail.com

Alternatively fax to +27 (0)21 650-3295, or post to Percy Fitzpatrick Institute of African Ornithology,
University of Cape Town, John Day Zoology Building, Upper Campus, University of Cape Town,
Rondebosch, 7701, Cape Town, South Africa

Name:	
Institution:	
Position:	
Postal address:	
E-mail:	
Telephone:	
Cellphone:	

1 – Taxon (Species or subspecies)

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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):

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

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4 – Population/distribution trends:

- 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 is the timing, scope and severity of the threats facing this taxon in the geographical area of expertise? Please mark with an impact score following the keys provided below the table:

Threat	Extent of threat			Details (if more space is needed continue in section 12)
	Timing*	Scope†	Severity‡	
TRADE Poaching to supply the local/national pet trade				
Poaching to supply the international pet trade				
HUNTING/PERSECUTION For food ('bush-meat')				
For traditional medicine/magic/traditional ceremonies				
Persecution as a crop pest				
LOSS OF NEST CAVITIES Destruction of nest sites caused by poachers accessing nests				
Due to commercial logging				
Due to increasing pressure from rural population †				
LOSS OF HABITAT Due to commercial logging				
Due to large-scale commercial farming				
Due to increasing pressure of rural population – agriculture				
Due to increasing pressure of rural population – wood-harvesting				
Due to desertification				
Other (please specify):				
<p>*Timing 0 – Only in the past (and unlikely to return) 1 – Only in the past (no direct affect but limiting) 2 – Now suspended (could come back in the long term) 3 – Now suspended (could come back in the short term) 4 – Continuing 5 – Only in the future (could happen in the short term) 6 – Only in the future (could happen in the long term) UK – Unknown</p> <p>†Scope 0 – Affects a negligible proportion of the population 1 – Affects the minority (<50%) of the population 2 – Affects the majority (50–90%) of the population 3 – Affects the whole (>90%) population UK – Unknown</p> <p>‡Severity 0 – No decline 1 – Causing or likely to cause negligible declines 2 – Causing or likely to cause fluctuations 3 – Causing or likely to cause relatively slow, but significant, declines (<20% over 10 years or three generations) 4 – Causing or likely to cause rapid declines (20–30% over 10 years or three generations) 5 – Causing or likely to cause very rapid declines (>30% over 10 years or three generations) UK – Unknown</p>				

6 – Conservation/research activities: Are you or your organisation engaged in any of the research/conservation activities listed below relevant to this taxon? What do you see as major priorities? Where appropriate please state whether you consider activity to be of 'low', 'medium' or 'high' priority. If more space is needed continue in section 12:

Activity	Brief details of activities in progress	Brief details of priority activities and priority score
POPULATION MONITORING e.g. compilation of bird checklists that include parrots, bird atlas projects, nest record card schemes, monitoring of breeding attempts, etc.		
RESEARCH Identification of factors limiting populations, taxonomy		
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		
SPECIES RE-INTRODUCTION		
LIVELIHOOD ALTERNATIVES Developing enterprises that directly depend on maintenance of natural resources or provide substitute livelihoods as a means of changing behaviors and attitudes, e.g. eco-tourism		
CAPACITY BUILDING Enhancing knowledge of local practitioners/stakeholders		
LEGISLATION AND ENFORCEMENT Activities aimed at influencing local or regional policy to improve legislation, e.g. regulation of trade		
SITE/AREA PROTECTION e.g. designation/enforcement of protected areas		
Other (please specify):		

7 – Please list the organisations (e.g. various national, provincial and local government departments, such as 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:

Organisation	Contact person	Postal address	E-mail	Fax	Tel. no.	Cell 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	Organisation	Postal address	E-mail	Fax	Tel. no.	Cell no.

12 – Any additional comments relevant to parrot conservation and research issues in your geographical area of expertise:

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