2015 AZA Raptor Taxon Advisory Group Regional Collection Plan

Third Edition



Submitted: **July 1, 2015**

Cover Picture:

The picture on the cover of this Regional Collection Plan is courtesy of Joel Sartore Photography. This image of a California condor is part of his Photo Ark project. As stated in his mission statement:

"Photo Ark is a collection of photographs that documents the world's species that we have a chance of losing. It is a visual connection between the animals and people who can help protect them."

The Raptor TAG is pleased to be able to support Mr. Sartore in his project by using this picture on the cover page for this document.

Acknowledgements:

The Raptor TAG also wishes to thank all the facilities that have helped in the making of this document by contributing to the space survey, reviewing and editing the draft version as well as contributing the photographs that are placed throughout the document.

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Raptor Taxon Advisory Group Mission Statement:

The mission of the Raptor Taxon Advisory Group is to coordinate management of captive Falconiformes and Strigiformes in North American collections, as well as to participate in and support relevant conservation efforts both *in situ* and *ex situ*.

With this publication it is a great opportunity for the Raptor TAG to coordinate with the various SSPs, program leaders and facilities to increase spaces for endangered species and/or CITES listed species. Concurrently we can maintain or decrease the number of the most common and native species within our AZA collections. For those not currently involved with listed species there are usually a few niches within your collections to assist programs. Such initiatives have conservation value, safeguard vulnerable species, create greater species management experiences and increase diversity of species for our guests

Goals of the Raptor TAG

- Identify and coordinate the use of space for species in the orders Falconiformes and Strigiformes in North America.
- Identify species that are in need of conservation action through natural history and population reviews and assessments.
- Develop and utilize criteria to select species for captive management and identify the level of management to be recommended for each species.
- Define species/population goals, conservation status and program goals, and communicate these to each AZA institution for every species in the TAG.
- Develop and disseminate husbandry information for raptor species.
- Develop public education programs on conservation issues facing species in this TAG, and promote the use of these materials by member institutions.
- Collaborate with professional organizations focused on training and presentation of raptors in educational settings relating to the conservation efforts of AZA institutions.
- Cooperate with the scientific community in identifying and meeting research needs.
- Cooperate with other national and international conservation organizations to identify and participate in common *in situ* and *ex situ* conservation goals.
- Collaborate with facilities in other regions to optimize management of small captive populations.
- Identify the best possible roles for captive populations of native raptors, which may include phasing out certain species/individuals in order to create additional management space for TAG-emphasized species.
- The TAG encourages all facilities to work collectively towards these objectives and goals.



Photo Credit: Andrea DeMuth, Brookgreen Gardens

TAXA Covered by this TAG

This Regional Collection Plan for the Raptor Taxon Advisory Group includes all species in the orders Falconiformes and Strigiformes. The <u>Handbook of the Birds of the World</u> (vols. 2 & 5), were used as the sole taxonomic reference. According to this literature there are 569 species of raptors represented by 1,430 taxa (sub-species). (A full accounting is attached as Appendix VIII.)

Falconiformes
Cathartidae 7 species 13 taxa
Pandionidae 1 species 4 taxa
Accipitridae 255 species 570 taxa
Sagittariidae 1 species 1 taxa
Falconidae 64 species 158 taxa
Strigiformes
Tytonidae 18 species 68 taxa
Strigidae 223 species 616 taxa

CONSERVATION STATUS OF TAXA

The following were used as sources of information regarding the conservation status of taxa covered by this plan:

- IUCN 2008. 2008 IUCN Red List of Threatened Species. < <u>www.iucnredlist.org</u>>.
- USFWS Endangered Species Act
- CITES
- BirdLife International (2008) Threatened birds of the world 2008. < www.birdlife.org >

The information referenced from these resources is found in the Species Summary section of this RCP and only reflects the species currently held in North American facilities. This TAG also recognizes that during the span of this RCP that there may be some unforeseen event or crisis that may require an alteration or addendum to this plan. In the event that plan recommendations are significantly altered, the TAG will communicate with WCMC and the IR's regarding the recommended changes.

RAPTOR TAG OPERATIONAL STRUCTURE

The Raptor TAG Steering Committee:

- Scott Tidmus, Disney's Animal Kingdom- Chair <u>scott.tidmus@disney.com</u> (407) 938-2105
- Jenny Barnett, Binder Park Zoo- Vice Chair <u>jbarnett@binderparkzoo.org</u> (269) 979-1351 ext. 158
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- Tom Schneider, Detroit Zoo tschneider@detroitzoo.org (248) 398-0903 ext. 3128
- Katy Unger, Fort Worth Zoo kunger@fortworthzoo.org (817) 759-7170
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- James Balance, Zoo Atlanta jballance@zooatlanta.org (404) 624-5691
- R. Harrison Edell, Dallas Zoo <u>harrison.edell@dallaszoo.com</u> (469) 554-7201

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mwallace@sandiegozoo.org -

(760) 291-5482

Dr. Mike McGrady, Natural Research Ltd.; mikejmcgrady@aol.com - (+43) 2732 72028

• Behavior Advisor (training, enrichment, etc.):

Steve Martin, Natural Encounters, Inc.; natencount@aol.com - (407) 938-0847

• Education Advisor:

Jacque A. Williamson, Brandywine Zoo; <u>Jacque.williamson@state.del.us</u> – Bridget Ebert, St. Louis Zoo; <u>ebert@stlzoo.org</u> -

- Nutrition Advisor: None at this time
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- Kirsi Pynnonen-Oudman, Dr., Falconiforme Vice Chair, Helsinki Zoo; <u>Kirsi.pynnonen@hel.fi</u> (+358) 9 310 37 882

RESPONSIBILITES OF STEERING COMMITTEE MEMBERS

Steering Committee members serve staggered, 3-year terms and have a current total of 12 members.

- Dedicate sufficient time to carry out TAG duties.
- Be prepared to chair TAG subcommittees and Specialist Groups.
- Review and vote on TAG policies.
- Review and vote on Studbook Keeper, SSP Coordinator applications.
- Internet and e-mail access required.

Voting Procedure: Two-Thirds approval by the Steering Committee is required for a majority.

The Secretary is responsible for conducting elections and taking meeting minutes.

RAPTOR TAG RECOMMENDATIONS

The Raptor TAG encourages all participating institutions and facilities to abide by the following:

- The TAG encourages all institutions to cooperate fully with the various SSP Breeding and Transfer Plans.
- All institutions must participate fully in the SSP partnership and process for relevant taxa.
- Microchip identification is recommended for species covered by the TAG to aid in long-term identification of individuals.
- AZA accession and deacquisition policies should be followed at all times.
- Institutions are encouraged to focus on captive husbandry efforts of recommended species to increase genetic diversity and reduce impact on wild populations.
- The TAG recommends that when individuals need to be restrained from flight it should be done by feather clipping instead of pinioning whenever feasible.
- Shows and demonstrations should be evaluated and advised by licensed falconers at the level of general falconer or higher. Presentations should have an education component with an emphasis on conservation issues and support.
- A large number of spaces in zoos are utilized by non-releasable North American species. It is encouraged that institutions keep these North American species in only appropriate geographically zoned exhibits so as not to encroach on spaces available for management of recommended species.

• Where common, North American species are on exhibit, facilities are encouraged to acquire non-flighted, rehabilitated specimens that may have more modest space requirements in order to reserve larger, potential breeding spaces for native and non-native species.

DECISION TREE

A decision tree was used to help categorize species covered by the TAG. If a population existed in North American collections, its viability was assessed. The capacity and space in North American institutions was determined through data from the 2014 Raptor TAG space survey and ZIMS data. The capacity/space information was considered as the decision tree was applied to each species since space availability is relevant to the long-term viability of each population. The resulting category listing was used to place the species into the appropriate management program. See Appendix I.

SELECTION CRITERIA

The AZA-recommended criteria (including the Management Assessment Criteria table), interpreted specifically in relation to raptors, were used in selecting species for inclusion or exclusion within this RCP. Only species currently held in AZA facilities were considered, primarily due to space limitations. Additional species may be included in the future if there is a clear need and space becomes available.

Raptors are typically long-lived species that have low reproductive rates. While some species clearly require careful population management, many captive populations with very low numbers have persisted for decades with minimal active management, reproduction or recruitment. Given the long history of the sport of falconry, many species of raptors exist in large numbers within the private sector, where they are often bred more reliably than in public facilities. Raptor species are the most popular group of birds used in educational demonstrations and shows. Native species, primarily rehabilitated wild birds, make up a large proportion of the captive AZA populations. These factors were important considerations in determining whether a species would be recommended for inclusion in the RCP and at what management level.

For each species, it was first determined whether there was a compelling conservation, education, research or display need? These categories were defined as follows:

- Display value was attributed to species that have high visitor impact, have reliable husbandry protocols and are in demand by AZA facilities.
- Educational value was attributed to species that can be interpreted to illustrate
 important concepts about raptors or birds in general, particularly if conservation
 messages could be incorporated. Common species may serve as representatives of their
 wild, endangered counterparts. Taxonomically unique species were considered to have
 both educational and display value.
- Research value was attributed to species that are inadequately understood in captivity; or in the wild when captive research might increase this information. Proposed research might include development of basic husbandry, propagation, nutrition, behavior and/or medical knowledge.

• Conservation value was attributed to all species in need of conservation action by AZA facilities. This would include the need for a captive genetic reservoir that may be used for reintroduction in the future as well as the potential to affect in situ conservation.

Second was if there was a viable population in AZA facilities. Viable populations include those:

- which are genetically and demographically self-sustaining in this region or
- for which additional founders are available from the wild (either via capture or rehabilitation), other regions and/or the private sector or
- for which additional individuals (not necessarily for breeding) are available from the wild (rehabilitation) and/or the private sector (non-endangered species bred for falconry) and
- for which husbandry expertise with the same or similar species already exists or could reasonably be developed.

For viable populations, it was next determined whether there was available space, interest and/or expertise.

compelling display, education, research or conservation need for the species. These categories were defined as follows:

- Display value was attributed to species that have high visitor impact, have reliable husbandry protocols and are in demand by AZA facilities.
- Educational value was attributed to species that can be interpreted to illustrate
 important concepts about raptors or birds in general, particularly if conservation
 messages could be incorporated. Common species may serve as representatives of their
 wild, endangered counterparts. Taxonomically unique species were considered to have
 both educational and display value.
- Research value was attributed to species that are inadequately understood in captivity; or in the wild when captive research might increase this information. Proposed research might include development of basic husbandry, propagation, nutrition, behavior and/or medical knowledge.
- Conservation value was attributed to all species in need of conservation action by AZA facilities. This would include the need for a captive genetic reservoir that may be used for reintroduction in the future as well as the potential to affect *in situ* conservation.

For viable populations with a compelling reason for inclusion in the RCP, the availability of space was then evaluated. This was based on the current and projected numbers reported by AZA facilities in the 2014 space survey. Species for which space was not currently or potentially available were not recommended.

If a viable population did not already exist, the availability, space and need were evaluated. If all three criteria were met, it was recommended that the species be a candidate species. If these criteria were not met, the species was recommended to be phased out; or if not already in AZA facilities, not recommended.

Once it was determined that a species should be maintained in AZA collections, the management category for the population was determined. Species not requiring genetic and demographic management were assigned to the Red SSP category. Species requiring a basic

level of genetic and demographic management were assigned to the Yellow SSP category. Species requiring the highest level of genetic and demographic management were assigned to the Green SSP category. The definition of these categories is included in the next section.

MANAGEMENT CATEGORIES

Once it was determined that a species would be included in the RCP, a decision was made regarding what type of management program would be appropriate. The Management Assessment Criteria table was used to evaluate each of the programs to ensure compliance with the WCMC guidelines. Each species was assigned to one of the following management categories based on this review:

Green SSP Programs

- Green SSP Programs have a population size equal to or greater than 50 individual.
- This population is able to retain > 90.0% GD for 100+ years or 10+ generations.
- The population is presently sustainable demographically with a sufficiently large population size and a positive growth rate to reach 100 years or 10 generations.

Yellow SSP Program

- Yellow SSP Programs have a population size (total N at the time of population planning) equal to or greater than 50 individuals.
- The population is not able to retain at least 90.0% GD over for 100+ years or 10+ generations.
- The population may have never been formally planned, or was planned more than 5 years ago, so that the population sustainability score cannot be properly assessed.

Red SSP Programs

• Red SSP Programs have a population size between 20 and 49 individuals unless accepted models can demonstrate long-term sustainability.

Candidate Programs

- Candidate Programs do not meet the minimum criteria to be an SSP Program.
- Candidate Programs may have a population size fewer than 20 individuals, and/or
- Candidate Programs may have fewer than 3 participating AZA member institutions.
- Candidate Program populations may meet minimum SSP criteria, but are not designated as an SSP Program because they do not yet have a published AZA Regional Studbook.

Phase-out and phase-in species

- "Phase-out species" refer to species currently held within AZA the TAG recommends the specific action of removing or reducing the population to reallocate resources toward another formally managed Animal Program. This may be indicated as an active process (sending animals to other zoological regions) or over time (through attrition), for example.
- "Phase-in species" refer to species currently unrepresented within the AZA where the TAG recommends the specific action of bringing into AZA member facilities. If

phase-in species are listed, the TAG should develop specific goals for this population to be added.

TAG monitored populations

The TAG may include an appendix that lists additional species that, although not recommended to be a SSP or Candidate Program, are frequently cared for in AZA member institutions (e.g., budgies, lorikeets, some fish and invertebrates, American alligators, etc.). The TAG may choose to track or monitor these populations informally, and may recommend them for formal AZA Animal Programs in the future. However, until that time, these will be considered unmanaged populations that the TAG only wishes to monitor informally. Only those taxa selected using the Species Selection Criteria may be further designated by the TAG as an AZA SSP and/or Candidate Programs.

Not Recommended

Species not currently in AZA institutions and the TAG recommends it not be brought into a captive management program at this time.

Appendix VI lists all supported raptor programs with leaders and studbook managers.

PROGRAM UPDATES

Since the last published RCP the Raptor TAG reports the removal from AZA facilities the following 17 species. All of which were single or a few total numbers in the population and over time they have been phased out.

Northern Goshawk Eurasian Sparrowhawk Sharp-shinned Hawk

White-tailed Hawk Red-backed Hawk Black Kite
Tawny Eagle Black-hawk Eagle Barbary Kestrel
Saker Falcon Rufous banded Owl Boobook Owl
Ural Owl Mottled Owl Tawny Owl

Bearded Vulture Ferruginous Pygmy Owl

In addition to the species no longer in our collections there have been 4 species added to our collections. These have been added to the population assessments.

Short-tailed Hawk Aplomado Falcon Pharoah's Eagle Owl

Mountain Pygmy Owl

One additional hybrid was added to the collection. We will not be monitoring the status of this hybrid.

Gyrfalcon/Saker Hybrid



Photo Credit: Cathy Burkey, Dallas Zoo

SPACE ANALYSIS

In July of 2014 the Raptor TAG sent a space survey to all 228 AZA institutions requesting information on their current and future raptor collections. The goal of this survey was to determine what space was being allocated to raptors, how they were being housed, exhibited and managed as well as what the future needs of these institutions may be. Of the 228 AZA institutions, 156 are participating members of the Raptor TAG with designated Institutional Representatives (IR's). Non-member participants include aquariums and museum collections with small raptor populations.

Of the 156 participating member institutions, 145 responded to the space survey, a response rate of 93%. We feel confident that this was an accurate snapshot of the current raptor population and these results have been utilized in directing this collection plan. This survey has also given us the opportunity to address future needs, and will be most useful within the next five years as a measuring device for the next update of the RCP.

The results of the space survey are attached as Appendix V.

The list of non-responsive institutions for the space survey is located in Appendix IX. They were sent several invitations to participate and follow up phone calls and messages as we came to the conclusion of the review process.

TARGET POPULATIONS

Target populations for the summary table were decided on several levels. Program species target populations were set with assistance back from the PMC and the program leader, using their best case scenario for success.

Monitored species targets were defined using a combination of current survey numbers as well as current ZIMS population sizes. The numbers from the 2009 RCP were used also to give a feel as to what the population trends seem to be in regard to these species. The exceptions will be species that the space survey shows are in demand and growth is planned to happen within the next five years.



Photo Credit: Cathy Burkey, Dallas Zoo

SUMMARY TABLE

The resources and definitions used to establish the summary table are listed in Appendix II; they have been separated to help manage the flow of this document.

Common Name		Status			Populat	ion size			
rame	IUCN	USFWS	CITES	2009	Curren	t 2015	Target	Management category	Conservation FunctionCoordinator/Manager
Scientific Name				RCP Survey Numbers	Space Survey	ZIMS Data			+ World Population Trend
New World Vult	ures								
Turkey Vulture Cathartes aura + C. a. aura + C. a. ruficollis + C. a. septentrionalis	LC		III	167	96	172	115	Monitored Program	• Breeding not recommended; population size needs to be reduced; replace with a flagship species
American Black Vulture Coragyps atratus	LC		III	57	36	68	40	Monitored Program	• Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended; reduce population
California Condor Gymnogyps californianus	CE	Е	I	80	55	115	150	YELLOW SSP	Existing SSP producing birds for release to the wild Mike Wallace, San Diego Zoo International Studbook Keeper: Michael Mace, San Diego Zoo Safari Park + Experimental Population, non-essential in Arizona, Nevada and Utah
King Vulture Sarcorhamphus papa	LC		III	91	67	107	120	GREEN SSP	● Popular exhibit and education species ● Shelly Collinsworth, Fort Worth Zoo + declining population
Andean Condor Vultur gryphus	NT	Е	I	77	40	69	85	YELLOW SSP	Existing SSP providing birds for release to the wild Mike Mace, San Diego Zoo Safari Park Regional Studbook Keeper, Ron Webb, San Diego Zoo Safari Park + declining population

Common Name		Status			Populat	ion size		Management	 Conservation Function Coordinator/Manager World Population Trend
~	IUCN	USFWS	CITES	2009 RCP	Curren	t 2015	Target	category	
Scientific Name				Survey Numbers	Space Survey	Data			World I opalation I tond
Old World Vultur	es								
Eurasian Black Vulture (Cinereous) Aegypius monachus	NT		П	48	47	45	70	YELLOW SSP	Existing SSP Mary Jo Willis, Denver Zoo + declining population
Palm-nut Vulture Gypohierax angolensis	LC		II	8	5	6	15	Monitored Population	• Taxonomic unique species + stable population
African White-backed Vulture Gyps africanus	EN		II	18	9	12	50	RED SSP	Popular exhibit species but not bred sufficiently – additional founders available – needs emphasis on captive reproduction to become self-sustaining population Susie Kasielke, Los Angeles Zoo + declining population
Oriental White- backed Vulture Gyps bengalensis	CE		I	1	1	1	0	Phase out	• Insufficient numbers in captivity and competes for space with other species identified as higher priority for management. Due to declining wild population and conservation work being done it is not a program for this region. + declining population
Cape vulture Gyps coprotheres	VU		II	25	31	32	50	RED SSP	• In demand as exhibit species – additional founders available – potential for release to the wild if sufficient numbers produced • Susie Kasielke, Los Angeles Zoo + declining population
Griffon vulture Gyps fulvus + G. f. fulvus	LC		II	4	1	3	0	Phase out	Investigate potential to send to EAZA facilities + population increasing

Common		Status			Populat	ion size			• Conservation Function
Name								Management	
	IUCN	USFWS	CITES	2009	Curren	t 2015	Target	category	Coordinator/Manager
Scientific Name				RCP Survey	Space Survey	ZIMS Data			+ World Population Trend
Name Ruppell's griffon vulture Gyps rueppelli + G. r. rueppelli	EN		п	Numbers 45	51	58	75	YELLOW SSP	Popular exhibit species but not bred consistently – additional founders available – needs emphasis on captive reproduction to become self-sustaining population. Bryan Emberton, Disney's Animal Kingdom + declining population
Hooded Vulture Necrosyrtes monachus	EN		II	30	32	39	50	RED SSP	 Popular exhibit species with sufficient numbers to become self-sustaining captive population Tom Schneider, Detroit Zoo +declining population
Egyptian Vulture Neophron percnopterus + N. p. ginginianus + N. p. percnopterus	Е		II	4	5	3	12	Monitored Program	• Popular show species + declining population
Red-headed Vulture Sarcogyps calvus	CE		II	1	1	1	0	Phase out	● Insufficient numbers in captivity and competes for space with other species identified as higher priority for management in this region. + declining population
Lappet-faced Vulture Torgos tracheliotus	VU		II	26	25	27	50	RED SSP	• Popular exhibit species but not bred sufficiently – additional founders available – needs research to determine how many should be imported to achieve population goals – needs emphasis on captive reproduction to become self-sustaining population • Debbie Milligan, Dallas Zoo + declining population
White-headed Vulture Trigonoceps occipitalis	VU		п	2	2	2	0	Phase out	• Insufficient numbers in captivity and competes for space with other species identified as higher priority for management + declining population

Common Name		Status			Populat	ion size			0 C
1 (allic	IUCN	USFWS	CITES	2009	Curren		Target	Management category	Conservation Function Coordinator/Manager
Scientific Name				RCP Survey Numbers	Space Survey	ZIMS Data			+ World Population Trend
Hawks, Eagles, et	te								
Cooper's Hawk Accipiter cooperii	LC		II	8	1	10	10	Phase Out	• Native species sometimes used for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + increasing population
Short-tailed Hawk Buteo brachyurus	LC		П	0	1			Phase Out	• Insufficient numbers in captivity and competes for space with other species identified as higher priority for management + increasing population
Jackal Buzzard Buteo rufofuscus	LC		II	2	1	1	0	Phase Out	• Insufficient numbers in captivity and competes for space with other species identified as higher priority for management + population stable
Red-tailed Hawk Buteo jamaicensis + B. j. borealis + B. j. calurus + B. j. costaricensis + B j. hadropus + B j. harlani + B. j. kiemsisi + B. j. krideri + B. j. umbrinus	LC		П	138	105	244	. 187	Monitored Program	• Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended; Reduce population. + increasing population
Rough-legged Hawk Buteo lagopus + B. l. lagopus + B. l. sanctijohannis	LC		п	17	6	11	15	Phase Out	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + population stable
Red-shouldered Hawk Buteo lineatus + B. l. alleni + B. l. linaetus	LC		II	19	9	34	18	Phase Out	• Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + increasing population
Grey Hawk Buteo nitidus	LC		II	1	1	17	0	Phase Out	• Insufficient numbers in captivity and competes for space with other species identified as higher priority for management + population unknown

Common		Status			Populat	ion size			• Conservation Function
Name								Management	
	IUCN	USFWS	CITES	2009	Curren	t 2015	Target	category	Coordinator/Manager
Scientific Name				RCP Survey Numbers	Space Survey	ZIMS Data			+ World Population Trend
Broad-winged Hawk Buteo platypterus + B. p. platypterus	LC		II	11	5	12	10	Phase Out	Native species sometimes used for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended +increasing population
Ferruginous Hawk Buteo regalis	LC		II	6	5	9	12	Phase Out	Native species sometimes used for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + ncreasing population
Hawai'ian Hawk Buteo solitarius	NT	Е	II	9	2	6	15	Monitored Program	• Federally endangered species -conservation message; has a fieldwork component #Proposed for delisting + population stable
Swainson's Hawk Buteo swainsonii	LC		П	17	15	27	30	Phase Out	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + population stable
Harris's Hawk Parabuteo unicinctus + P. u. harrisi + P. u. superior	LC		II	102	76	168	115	Phase Out	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended - reduce numbers + declining population
Northern Harrier Circus cyaneus + C. c. hudsonius	LC		П	2	1	1	5	Phase Out	Native species sometimes used for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + declining population
Mississippi Kite Ictinia mississippiensis	LC		II	5	5	19	10	Phase Out	Native species sometimes used for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + increasing population

Common Name		Status			Populat	ion size			
Name	IUCN	USFWS	CITES	2009	Curren	t 2015	Target	Management category	Conservation FunctionCoordinator/Manager
Scientific Name				RCP Survey Numbers	Space Survey	ZIMS Data	J		+ World Population Trend
Bald Eagle Haliaeetus leucocephalus + H. l. alascanus + H. l. leucocephalus	LC	Т	I	156	172	294	267	Monitored Program	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding recommended only in conjunction with programs for releases to the wild #Species delisted due to recovery + increasing population
White-bellied Sea Eagle Haliaeetus leucogaster	LC		П	1	2	0	0	Phase Out	• Currently only one bird shows up on space survey and ISIS. + declining population
Steller's Sea Eagle Haliaeetus pelagicus + H. p. pelagicus	VU		II	10	21	10	20	RED SSP	• Species in decline in the wild likely to breed well in captivity and is a cold-hardy species suitable for northern facilities – potential genetic reservoir for reintroduction if needed Beau Parks – San Diego Zoo + declining population
African Fish Eagle Haliaeetus vocifer	LC		II	11	8	12	20	Monitored Program	• Popular exhibit, education and show species + population stable
Golden Eagle Aquila chrysaetos+ A. c. canadensis + A. c. chrysaetos + A. c. homeryi + A. c. japonica	LC		II	35	22	106	65	Monitored Program	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + population stable
Harpy Eagle Harpia harpyja	NT	Е	I	14	10	11	30	RED SSP	O Species in decline in northern part of range with high potential as a conservation flagship species – founders are available from captive populations in other regions. O Janice Owlett, San Diego Zoo + declining population

Common		Status			Populat	ion size			
Name								Management	• Conservation Function
	IUCN	USFWS	CITES	2009 RCP	Curren		Target	category	Coordinator/Manager+ World Population Trend
Scientific				Survey	Space Survey	ZIMS Data			World Topulation Trend
Name				Numbers					
Martial Eagle Polemaetus bellicocus	VU		II	0		6	0	Phase Out	• Species has only recently been available with any numbers – breeding not recommended at this time. + declining population
Ornate Hawk-eagle	NT		II	2	2	7	15	Phase Out	Husbandry research model for endangered forms
Spizaetus ornatus									Species Champion: Daryl Richardson, Dallas World Aquarium + declining population
	NT		II	7	6	4	10	Phase Out	• Species is gaining interest
Crowned Hawk-eagle Stephanoaetus coronatus	NI		11	,	Ü	7	10	Thase Out	as a display and demonstration species – husbandry is similar to other large forest eagles, so species is a husbandry research model + declining population
Bateleur Eagle Terathopius ecaudatus	NT		I	21	12	19	30	Phase Out	● Unusual species not bred consistently – husbandry research needed to develop reliable propagation techniques + declining population
	VU		II	25	24	30	35	RED	Popular exhibit species with
Secretary Bird Sagittarius serpentarius								SSP	sufficient numbers to become self-sustaining captive population Michelle Handrus, San Diego Zoo Safari Park + declining population
Osprey Pandion haliaetus	LC			0	2	25	25	Phase Out	Native species popular for exhibit/education –breeding not recommended. Taxonomic unique species. + increasing population

Common Name		Status			Populat	ion size			• 6
Name	IUCN USFWS CITES			2009	Curren	+ 2015	Target	Management category	Conservation FunctionCoordinator/Manager
Scientific Name	IOCN	USFWS	CITES	RCP Survey Numbers	Space Survey	ZIMS Data	Target	category	+ World Population Trend
Crested Caracara Polyborus plancus + P. p. auduboni	LC		11	19	16	35	25	Phase Out	Native species popular for exhibit/education –breeding not recommended + increasing population
Falcons									
Merlin	LC		II	1	3	7	8	Phase Out	Native species sometimes used for exhibit/education – sufficient numbers of non- releasable birds available through wildlife rehabilitators – breeding not recommended + population stable
Prairie Falcon Falco mexicanus	LC		П	6	2	4	10	Phase Out	• Native species sometimes used for exhibit/education – sufficient numbers of non- releasable birds available through wildlife rehabilitators – breeding not recommended + increasing population
Peregrine Falcon Falco peregrinus + F. p. anatum + F. p. pealei + F. p. tundrius	LC		I	31	22	38	40	Monitored Program	Native species with strong conservation message popular and recommended for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended unless in conjunction with sanctioned release program. + population stable
Aplomado Falcon Falco femoralis	LC		II	0	2	0	0	Phase Out	• Insufficient numbers in captivity and competes for space with other species identified as higher priority for management + population decreasing
American Kestrel Falco sparverius + F. s. paulus + F. s. sparverius	LC		П	121	34	94	110	Phase Out	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended - reduce population + population stable

Common Name		Status			Populat	ion size			● Conservation Function ● Coordinator/Manager + World Population Trend
Name	IUCN	USFWS	CITES	2009	Curren	+ 2015	Target	Management category	
Scientific Name	IOCN	USFWS	CITES	RCP Survey Numbers	Space Survey	ZIMS Data	rarget	category	
Lanner Falcon Falco biarmicus	LC		П	8	5	11	8	Phase Out	• Popular education species available through captive breeding in the private sector + increasing population
Gyrfalcon	LC		II		3			Phase Out	• Popular education species available through captive breeding in the private sector = stable population
Lagger Falcon	NA		П		2			Phase Out	● Education species available through captive breeding in the private sector □□◆●②◆※□■ ♣;■□◆■
African Pygmy Falcon Polihierax semitorquatus	LC		П	42	38	30	70	RED SSP	Popular exhibit and education species Nicole LaGreco, San Diego Zoo population stable
Barn Owls									
Barn Owl Tyto alba + T. a. alba + T. a. delicatula + T. a. pratincola	LC		II	183	102	195	150	Monitored Program	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended - reduce population + population stable
Typical Owls									
Northern Saw Whet Owl Aegolius acadicus	LC		П	17	5	11	10	Phase Out	Native species sometimes used for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + declining population
Short-eared Owl Asio flammeus + A.f. flammeus + A.s.sandwichensis	LC		11	10	2	3	5	Phase Out	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + declining population
Long-eared Owl Asio otus + A. o. otus + A. o. wilsonianus	LC		II	15	4	8	10	Phase Out	• Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended +population stable

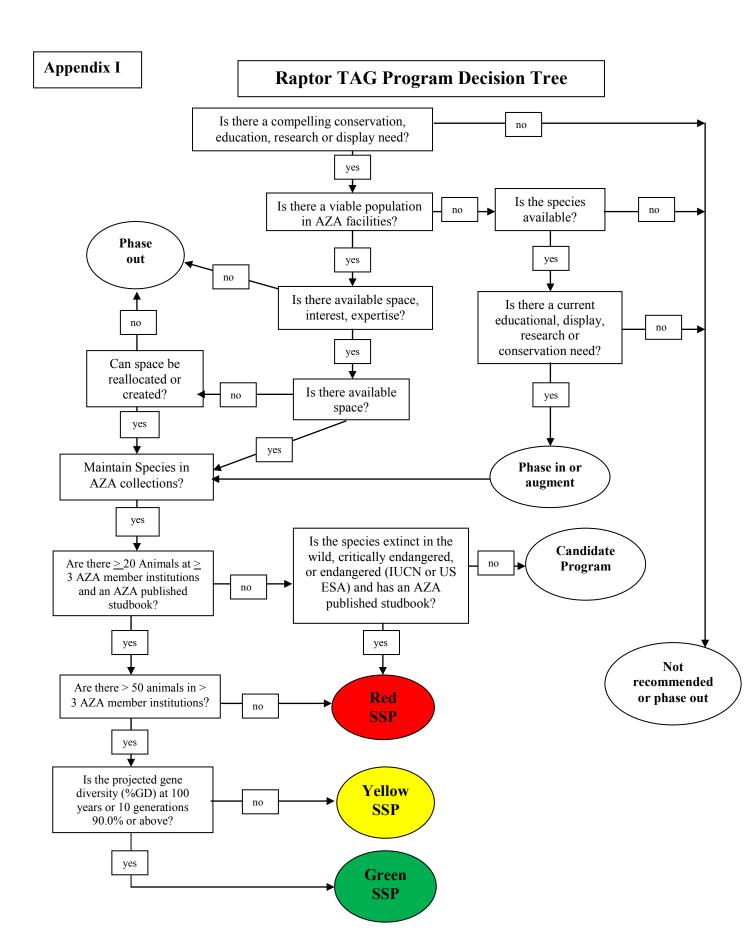
Common Name	Status				Populat	ion size				
Scientific Name	IUCN	USFWS	CITES	2009 RCP Survey Numbers	Curren Space Survey	zIMS Data	Target	Management category	 Conservation Function Coordinator/Manager World Population Trend 	
Burrowing Owl Athena cunicularia A.c. floridana A.c. hypugaea	LC		II	126	69	138	170	Yellow SSP	Popular exhibit and education species – with sufficient numbers and breeding to maintain self-sustaining captive population Yvonne Strode, Glen Oak Zoo + declining population	
Great-horned Owl Bubo virginianus + B. v. algistus + B. v. nacurutu + B. v. pacificus + B. v. virginianus	LC		II	232	90	135		Monitored Program	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended – reduce population + population stable	
Elf Owl Micrathene whitneyi	LC		II	5	1	2	5	Phase Out	Native species sometimes used for exhibit/education – breeding not recommended + declining population	
Snowy Owl Nyctea sandiaca	LC		II	43	36	62	150	Yellow SSP	Popular exhibit and education species with sufficient numbers to become self-sustaining captive population. This species is susceptible to WNV, which may affect any institution's desire/ability to work with it. Justin Hickman, Chicago Zoological Society + declining population	
Megascops Screech Owl (common & Eastern) Otus asio + O. a. asio + O. a. swenki	LC		II	242	121	228	150	Phase Out	Native species popular for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended - reduce population + increasing population	
Megascops Western Screech Owl Otus kennicotti	LC		II	19	17	7	20	Phase Out	Native species sometimes used for exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended + declining population	

Common Name	Status				Populat	ion size			• Conservation Function • Coordinator/Manager	
Name	IUCN USFWS CITES		2009	Curren	t 2015	Target	Management category			
Scientific Name	IOON	ooi wo	OHLO	RCP Survey Numbers	Space Survey	ZIMS Data	Target	outogory	+ World Population Trend	
Oriental Bay Owl Phodilus badius + P.b.badius	LC		II	4	2	2	0	Phase Out	• Species of interest but not sufficient numbers to maintain captive population. + population stable	
P.B.Baaius										
Spotted Owl Strix occidentalis + S. o. caurina	NT		П	3	1	3	6	Phase Out	• Native species used for exhibit/education to illustrate conservation issues – need for captive breeding is not currently indicated – acquire rehabilitated, non-releasable	
	LC		II	110	59	134	100	Phase Out	specimens as space permits + declining population • Native species popular for	
Barred Owl Strix varia + S. v. georgica + S. v. varia									exhibit/education – sufficient numbers of non-releasable birds available through wildlife rehabilitators – breeding not recommended - reduce population + increasing population	
Eurasian Eagle-owl Bubo bubo + B.b.bubo	LC		П	51	36	72	70	YELLOW SSP	● Popular education species with sufficient numbers to become self-sustaining captive population ● Harrison Edell, Dallas Zoo + declining population	
Verreaux's Eagle-owl	LC		II	11	15	14	20	Candidate	 Popular education species, great exhibit value Harrison Edell, Dallas Zoo + population stable 	
Pharoah Eagle-owl Bubo ascalaphus	LC		II	0	1		1	Phase out	• Insufficient numbers in captivity and competes for space with other species identified as higher priority for management + population stable	
White-faced Scops Owl	LC			11	3	4	15	Monitored Program	O Common species to serve as a husbandry model and conservation ambassador. + population unknown	
Ptilopsis leucotis + P. l. granti + P. l. leucotis										
Spectacled Owl Pulsatrix perspicillata + P.p.perspicillata	LC		II	73	41	72	85	YELLOW SSP	● Popular exhibit species with sufficient numbers to continue as a self-sustaining captive population ● Steve Sarro, National Zoo + population stable	

Common Name		Status			Populat	ion size		Management	• Conservation Function
	IUCN	USFWS	CITES	2009	Curren	t 2015	Target	category	Coordinator/Manager
Scientific Name				RCP Survey Numbers	Space Survey	ZIMS Data			+ World Population Trend
Mountain Pygmy Owl Glaucidium gnoma	LC		П	0	1		1	Phase Out	• Insufficient numbers in captivity and competes for space with other species identified as higher priority for management + declining population
Great Gray Owl Strix nebulosa + S. n. lapponica + S. n. nebulosa	LC		II/III	9	10	11	10	Phase Out	• NA species, winter hardy + population stable

RAPTOR TAG ACTION PLANS

- California condor reintroduction Mike Wallace and Michael Mace
 - Continue to support captive breeding efforts and assist where needed for release programs.
- Andean condor reintroduction Michael Mace
 - Support the SSP with specimen for the Colombian release programs.
- Eurasian Black Vulture SSP Artificial Insemination project at Denver Mary Jo Willis
- Eurasian Black Vulture SSP Support of in situ field work with Ikh Nart Nature Reserve, Mongolia. – Denver Zoo – Mary Jo Willis
- Northern Spotted Owl Recovery Plan Woodland Park Zoo is working with the British Columbia Ministry of Forests, Lands and Natural Resources to re-build and restore the Northern Spotted Owl - Mark Myers
- Asian Vulture Initiative This project is a continuation of the work began over 5 years ago in efforts to support and assist in the protection and recovery of the several Asian vulture species. These species are in jeopardy of extinction due to a chemical drug used on cattle. Currently the program is in the recovery phase and there are now several breeding facilities being supported by AZA facilities to assist in the recovery process. The two recent earthquakes in Nepal have not damaged any of these facilities but support efforts are underway to help the communities around the facilities. Scott Tidmus, Disney's Animal Kingdom.
 - Continue to develop animal care manuals for all taxa covered by this TAG. Currently finalizing the Owl Animal Care Manual. The Condor Animal Care Manual is completed. Work will continue on the next taxon once the Owl manual is finalized.



Summary Table Resources and Definitions

- Current population size is from January ZIMS data, it is known that not all
 institutions report using ZIMS, but as it is generally accepted by AZA we will use
 this data to help evaluate what is documented. We understand this may lead to
 minor discrepancies but feel it is accurate to be paired with the space survey to
 evaluate the species.
- Target populations are derived from the summer 2014 Space Survey. For complete data from the space survey, please see Appendix V
- For population status, if the area is left blank it infers no information is available in regard to those particular resources.
- In the last column we list the conservation function for the species as well as the manager of that population if it is at program level. And finally we list what the current global population status is according to the IUCN Red Data List.
- For population status in Appendix VIII, the term NGT refers to the species being "Not Globally Threatened" meaning widespread and abundant with increasing range.
- IUCN Definitions as taken from the IUCN Red Data List Categories and Criteria, Version 3.1.
 - Extinct (EX) A taxon is Extinct when there is no reasonable doubt that the last individual has died. A taxon is presumed Extinct when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.
 - Extinct in the Wild (EW) A taxon is Extinct in the Wild when it is known only to survive in cultivation, in captivity or as a naturalized population/s well outside the past range. A taxon is presumed Extinct in the Wild when exhaustive surveys in known and/or expected habitat, at appropriate times (diurnal, seasonal, annual), throughout its historic range have failed to record an individual. Surveys should be over a time frame appropriate to the taxon's life cycle and life form.
 - Critically Endangered (CE) A taxon is Critically Endangered when the best available evidence indicates that it meets any of the criteria A to E for Critically Endangered (see IUCN Red Data List Categories and Criteria, Version 3.1), and it is therefore considered to be facing an extremely high risk of extinction in the wild.
 - Endangered (EN) A taxon is Endangered when the best available evidence indicates that it meets any of the criteria A to E for Endangered (IUCN Red Data List Categories and Criteria, Version 3.1), and it is therefore considered to be facing a very high risk of extinction in the wild.
 - Vulnerable (VU) a taxon is Vulnerable when the best available evidence indicates that it meets any of the criteria A to E for Vulnerable (IUCN Red Data List Categories and Criteria, Version 3.1), and is therefore considered to be facing a high risk of extinction in the wild.

- Near Threatened (NT) A taxon is Near Threatened when it has been evaluated against the criteria but does not qualify for Critically Endangered, Endangered or Vulnerable now, but is close to qualifying for or is likely to qualify for a threatened category in the near future.
- Least Concern (LC) A taxon is Least Concern when it has been evaluated against the criteria and does not qualify for Critically Endangered, Endangered, vulnerable or Near Threatened. Widespread and abundant taxa are included in this category.
- Data Deficient (DD) A taxon is Data Deficient when there is inadequate information to make a direct, or indirect, assessment of its risk based on its distribution and/or population status. A taxon in this category may be well studied, and its biology well known, but appropriate data on abundance and/or distribution are lacking. Data Deficient is therefore not a category of threat. Listing in this category indicates that more information is required and acknowledges the possibility that future research will show that threatened classification is appropriate. It is important to make positive use of whatever data are available. In many cases great care should be exercised in choosing between DD and a threatened status. If the range of a taxon is suspected to be relatively circumscribed, and a considerable period of time has elapsed since the last record of the taxon, threatened status may well be justified.
- Not Evaluated (NE) a taxon is Not Evaluated when it has not yet been evaluated against the criteria. (IUCN Red Data List Categories and Criteria, Version 3.1).
- USFWS definitions as taken from the Fish and Wildlife Service Glossary of terms:
 - Endangered An animal or plant species in danger of extinction throughout all or a significant portion of its range.
 - o Threatened An animal or plant species likely to become endangered within the foreseeable future throughout all or a significant portion of its range.
- CITES Definitions as taken from the terminology section of the CITES website:
 - Appendix I includes all species threatened with extinction, which are or may be affected by trade. Trade in specimens of these species must be subject to particularly strict regulation in order not to endanger further their survival and must only be authorized in exceptional circumstances.
 - Appendix II includes i) all species which although not necessarily now threatened with extinction may become so unless trade in specimens of these species is subject to strict regulation in order to avoid utilization incompatible with their survival; and ii) other species which must be subject to regulation in order that trade in specimens of certain species referred to in subparagraph (a) above may be brought under effective control [e.g. species that are similar in appearance to those included in Appendix I].
 - Appendix III includes all species, which any Party identifies as being subject to regulation within its jurisdiction for the purpose of preventing or

restricting exploitation, and as needing the cooperation of other Parties in the control of trade.

• Management Assessment Criteria Table – This table was developed by WCMC to assist TAGs in determining the appropriate level of population management for their program species. This table was used in review of the species currently found within AZA institutions. This review was done by members of the steering committee and in special cases the experience and knowledge of the specific species was used to evaluate their level of management. Any variance in the MAC tool and the decision of the TAG steering committee is explained following the evaluation chart – Appendix III.



Photo Credit: Joseph V. Labolito/Temple University, Elmwood Zoo

Appendix III

Management Assessment Criteria Matrix

	Green SSP Program	Yellow SSP Program	Red SSP Program	Candidate Program
AZA Policies				-
AZA Acquisition, Transfer and Transition Policy	Required	Required	Required	Required
AZA Code of Professional Ethics	Required	Required	Required	Required
AZA Full Participation in SSP Program Policy	Required	Voluntary	Voluntary	NA
AZA Animal Management Reconciliation Policy	Required	Not Required	Not Required	NA
WCMC Approval of Sustainability Partners	Required	Not Required	Not Required	Not Required
Sustainability Criteria				
Minimum population size (N)*	50	50	20	NA
Minimum number of participating AZA member institutions*	3	3	3	NA
Projected gene diversity (%GD) at 100 years or 10 generations	90.0% or above	Less than 90.0%	Less than 90.0%	NA
Cooperative Management				
TAG recommended Animal Program in RCP	Required	Required	Required	Required
AZA Regional Studbook	Required	Required	Required	Not Required
Formal population planning by PMC, PMC Adjunct or SPMAG Advisor	Required	Required	Required	Not Required
Management Group	If Needed	If Needed	If Needed	If Needed
Accountability				
Develop three Program goals	Required	Required	Required	Required
AZA and WCMC oversight	Yes	Yes	Yes	No
Breeding and Transfer Plan published at least every 3 years	Required	Required	Required	Not Required
AZA Regional Studbook published at least every 3 years	Required	Required	Required	Not Required
AZA Regional Studbook Keeper must take Population Management 1	Required	Required	Required	Recommended
Program Leader must take Population Management 2	Recommended	Recommended	Recommended	Recommended

ANIMAL PROGRAM SUMMARY DATA

Common Name (Genus species)	Date of Last Breeding and Transfer Plan	Current Population Size (N)	Current Number of Participating Institutions	%GD at 100 years or 10 generations)	SSP Program Designation	5 year Target Population Size (N)	Space Needed (target population size - current space)	Recent 5 Year Population Trend (increasing, decreasing, or stable)	USFWS IUCN CITES
King vulture	Oct. 14 2014	52.53.17	56	97.35	Green SSP	120	Yes	Increasing	NL LC III
Andean Condor	April 4, 2013	31.39	37	84	Yellow SSP	84	42	Stable	EN EN I
California Condor		201	7	Not calculated	Yellow SSP				EN EN I
Eurasian Black vulture	Dec. 30 2013	24.29.1	23	79.23	Yellow SSP	64	Increase holding space for 5 pairs	Increasing	NL NT II
Ruppell's vulture	Mar. 16 2015	27.28.2	14	76.5	Yellow SSP	75	Yes	Increasing	NL EN II
Burrowing Owl	Dec. 4 2014	62.73.12	51	57.3	Yellow SSP	150	Increase by 3	Increasing	LC
Spectacled Owl	April 2015	37.32.15	34	72.3	Yellow SSP	85	Need more exhibits vs education spaces	stable	LC

Common Name (Genus species)	Date of Last Breeding and Transfer Plan	Current Population Size (N)	Current Number of Participating Institutions	%GD at 100 years or 10 generations)	SSP Program Designation	5 year Target Population Size (N)	Space Needed (target population size - current space)	Recent 5 Year Population Trend (increasing, decreasing, or stable)	USFWS IUCN CITES
Snowy Owl	April 18 2014	33.35.4	40	17.6	Yellow SSP	150	Need 40 spaces	Stable	NL LC II
Eurasian Eagle Owl		61.52.0		73.1	Yellow SSP				
African White- backed vulture	June 2009	7.8.0	6	75	Red SSP	25	Need 10 spaces	Decreasing	NL EN II
Cape Griffon vulturee	June 2009	16.15.0	6	76	Red SSP	50	Need 19 spaces	Increasing	NL VU II
Lappet- faced vulture	July 2015	14.14.0	11		Red SSP	50		increasing	NL VU II
Hooded vulture		20.14.1	10	92.4	Red SSP	50		increasing	NL EN I
Secretary bird	June 5 2013	15.12	12	8	Red SSP	30	Need 18 spaces	Decreasing	NL VU II
African Pygmy Falcon	Dec. 2012	27.19.1	18	51	Red SSP	See RCP	Increase space	Stable	NL II

Common Name (Genus species)	Date of Last Breeding and Transfer Plan	Current Population Size (N)	Current Number of Participating Institutions	%GD at 100 years or 10 generations)	SSP Program Designation	5 year Target Population Size (N)	Space Needed (target population size - current space)	Recent 5 Year Population Trend (increasing, decreasing, or stable)	USFWS IUCN CITES
Verreaux's Eagle Owl		9.8.3		Unknown at this time	Red SSP				

Appendix V

Species Profiles

For each program the leaders have given a species profile that will assist partners in finding more information about the programs and who to contact if they have questions. These are also used to show current status of the programs as well as any conservation programs and finally the demographics and genetics of the population, The following information can be used to assess the population that is attached to the end of each species profile.

Demography & Genetics

Current population size (N):

This is the current number of specimens estimated to be living in participating institutions, according to the most current studbook, followed by the number of males, females, and unknown sex individuals in the population.

Target population size:

Population size designated in the previous RCP (or current RCP?? – review and update these values if they've changed)

Historic population growth rate ($\lambda = 1.0, 0\%$ growth)

This represents the annual rate of increase of the population, as determined by demographic analysis of historic studbook data within the date range of modern management, or comparison with a similar species. This value typically is extracted from PMx (or other population management software) and is calculated from the life tables in this program.

Projected population growth rate ($\lambda = 1.0$, 0% growth)

This represents the projected annual rate of increase of the population, and is typically extracted from the 20 year stochastic projections from PMx (or other population management

software) and are based on what the likely projection of the population is based on 5-year and historic lambdas as well as target population size.

Current Founders (N):

Number of individuals obtained from a source population (often the wild) that has have no known relationship to any individuals in the derived population (except for their own descendants).

GD Retained – Estimated current gene diversity of AZA population (%)

Gene diversity was calculated by genetic analysis of true or analytical studbook data. The proportional gene diversity (as a proportion of the source population) is the probability that two alleles from the same locus sampled at random from the population will not be identical by descent. Gene diversity is calculated from allele frequencies, and is the heterozygosity expected in progeny produced by random mating, and if the population were in Hardy-Weinberg equilibrium.

Mean Kinship (MK):

The mean kinship coefficient between an animal and all animals (including itself) in the living, captive-born population. The mean kinship of a population is equal to the proportional loss of gene diversity of the descendant (captive-born) population relative to the founders and is also the mean inbreeding coefficient of progeny produced by random mating. Mean kinship is also the reciprocal of two times the founder genome equivalents: MK = 1 / (2 * FGE). MK = 1 - GD.

Mean Inbreeding (F):

Probability that the two alleles at a genetic locus are identical by descent from an ancestor common to both parents. The mean inbreeding coefficient of a population will be the proportional decrease in observed heterozygosity relative to the expected heterozygosity of the founder population.

Gene Diversity at 100 Years from Present:

This calculation of gene diversity is derived from projections in PMx (or other population management software) which is calculated by examining current gene diversity retained, projected growth rate, ratio of Ne/N and target population size to determine the level of gene diversity that will be retained in 100 years (or for another specified timeframe).

The following table is an example of different projection strategies used for each population to evaluate whether the current population will be able to meet the standard AZA program goal of 90% gene diversity for at least 100 years.

Projection strategy	% GD at 100 years	Years to 90% GD	Years to 10% GD loss	Tested target population size (after/before exclusions)					
Strategy A evaluates the genetic status of the population in 100 years under current conditions (historic average annual growth rate, current GD, current Ne/N). This strategy assumes that no founders will be imported. The tested target population size was the number set as the maximum allowable population size on the PM2000 Goals Screen, and was generally the estimated current maximum holding capacity from the TAG's space survey.									
A. Increase lambda or Ne/N B. Increase target population size tested	,		,						
Additional strategies evaluate the genetic status of the population in 100 years with an improvement to population parameters (average annual growth rate, Ne/N) or an increase in the tested target size (set to either the estimated future holding capacity from the TAG's space survey or some larger population size).									
C. Import reasonable # founders									
Other additional strategies evaluate the genetic addition of a realistic number of founders, be described.									

The Raptor TAG would like thank Gina Ferrie, AZA PMC Adjunct Population Biologist in her assistance in compiling and developing the Demographics and Genetic sections for our program species. Her assistance is greatly appreciated.

Green SSP

King Vulture

Species: King Vulture (Sarcoramphus papa)

Current Population:

AZA: 55.60.19 (134)2014 Space Survey

2015 Studbook Update

Wild Population Status:

CITES: III (Honduras)IUCN: Least Concern

Program Leader: Shelly Collinsworth

Studbook Keeper: Shelly Collinsworth

Other Regional Program Status:

This species is also held in EAZA institutions and the status is similar to the North American population.

Description:

King vultures are curious and intelligent birds with bright facial coloration that makes them an attractive exhibit bird. They have been successfully integrated into a variety of enclosures both with other species and alone. Consideration must be given to the fact that their feet are supremely sensitive to cold weather and, if held in areas with temperature extremes, these birds will require heated holding.

Program Goals/Objectives:

Goal #1 - On going maintenance of genetic and demographic health of the long term population.

Goal #2 - Planned re-integration of imprinted program animals into breeding situations once they reach 4 to 5 years of age and become too aggressive to handle. The intent is to reduce the number of single birds who are no longer in use as program animals due to aggression, and reintigrate them into the breeding population.

Goal #3 - Investigate mixing and exchanging genetic stock with EAZA bloodlines before the next planning session.



Conservation Projects/Connections:

• No conservation programs in place at this time. The population is stable in most regions.

Demographics and Genetics

Current Population Size (N)	89
Males	40
Females	42
Unknown	7
Target Population Size	120
Historic Population Growth Rate	1.018
Projected Population Growth Rate	1.03
Current Founders	43
Gene Diversity (GD) Retained (%)	97.35
Population Mean Kinship (MK)	0.0265
Mean Inbreeding (F)	0
Gene Diversity at 100 Years From Present (%)	90.5



Photo Credit: Helen Dishaw, Tracy Aviary

Yellow SSP

Burrowing Owl

Species: Burrowing Owl; Athene cunicularia

Current Population:

AZA: 63.62.12 (145); 47 institutions

Non-AZA: 4.4 (8); 3 institutions

• 2014 Space Survey

Wild Population Status

CITES: Appendix IIIUCN: Least Concern

FWS: No Listing

COSEWIC: Endangered

Program Leader: Yvonne Strode/Peoria Zoo

Studbook Keeper: Yvonne Strode/Peoria Zoo

Other Regional Program Status:

Description: The burrowing owl is a small ground-dwelling owl; length varies from 19.0 to 25 cm and the average weight is 150 g. The head is round and lacks ear tufts. The facial disc, which is poorly developed, is framed by a broad, buffy-white stripe on the interior part from the eyebrow to the cheek. This stripe is fully exposed when the owl is in the white and tall posture seen during territorial disputes and copulatory behaviors. The characteristic long legs are lightly feathered with short, fine plumage. The toes, which are not especially powerful in gripping, are almost bare with small, very bristly feathers. In flight, the burrowing owl is highly maneuverable.

Program Goals/Objectives:

Goal #1 - Increase genetic diversity; make recommendations annually – full PMP every 3 years, use MateRx other 2 years. Research history of past non-releasable birds successfully breeding, i.e., do any specific injuries prevent copulation? Encourage participating institutions to acquire non-releasable wild caught bird whenever possible – if not possible, contact SSP coordinator (goal of at least 2 new founders annually).

Goal #2 - Maintain non-breeding population for use as program animals. Survey all current and potential program participants to quantify need and stress importance of not using genetically valuable birds for education (in conjunction with annual needs/wants survey). If



necessary, breed pairs with lower MK values for education. Disseminate information to increase value of using species as program animals (add section to 2015 studbook)

Goal #3 - Increase participation of AZA institutions in current/future release programs. Survey current holding institutions on interest/available resources (in conjunction with 2015 needs/wants survey in Aug/Sept). Work with institutions and rehabilitators in northern states of range to recruit wild caught birds.

Conservation Projects/Connections:

Have been in contact with Alexandra Froese of the Manitoba Release Program and there is interest in working with AZA facilities. At this time, there are no birds in the population whose founder ancestors originated in the states required, i.e., South Dakota, North Dakota, Colorado, Nebraska, Wyoming).

Demographic and Genetics:

Current Population Size (N)	123
Males	57
Females	59
Unknown	7
Target Population Size	150
Historic Population Growth Rate	1.033
Projected Population Growth Rate	1.015
Current Founders	24
Gene Diversity (GD) Retained (%)	93.64
Population Mean Kinship (MK)	0.0636
Mean Inbreeding (F)	0.07
Gene Diversity at 100 Years From Present (%)	57.3

Yellow SSP Snowy Owl

Species: Snowy Owl (Bubo scandiacus)

Current Population:

AZA: 35.35.5 (75)2013 Studbook

Wild Population Status

- **CITES** = Appendix II
- **IUCN** = Least Concern
- **FWS** = Least Concern

Program Leader: Cody Hickman **Studbook Keeper:** Cody Hickman



Other Regional Program Status:

This species is held in EAZA were the population currently at 164.176. 7.

Description:

This species is circumpolar which includes Russia, Canada, Greenland, Iceland, Northern Europe, and Alaska. This species is dimorphic with females white with extensive barring on the wings, chest, stomach, legs, and tail feathers. The males when reached sexual maturity are nearly completely white except for black bars on the primary and tail feathers

Program Goals/Objectives:

Goal #1 - Recruit participants to research the effects of altered photoperiod on breeding success in snowy owls. In the hopes that snowy owls will breed earlier in the season.

Goal #2 – Build relationships with rehab facilities to bring in new founder stock that has been deemed unable to be released back into the wild.

Goal #3 – Increase the number of participating institutions by at least two facilities by December 2016.

Conservation Projects/Connections:

• No conservation programs in place.

Demography and Genetics:

Current Population Size (N)	62
Males	29
Females	30
Unknown	3
Target Population Size	150
Historic Population Growth Rate	0.995
Projected Population Growth Rate	1
Current Founders	37
Gene Diversity (GD) Retained (%)	95.48
Population Mean Kinship (MK)	0.0452
Mean Inbreeding (F)	0.0229
Gene Diversity at 100 Years From Present	17.6
(%)	



Photo Credit: Steve Dombroskie, Maryland Zoo

Yellow SSP

Ruppell's Vulture

Species: Ruppell's Vulture (Gyps

rueppelli)

Current Population:

27.28.2 at 14 AZA zoos and 0.2 at non

accredited facilities.

Wild Population Status

CITES: II

IUCN: Endangered

FWS

Program Leader: Bryan Emberton

Studbook Keeper: Bryan Emberton



Other Regional Program Status: Species is held in EAZA. Current EAZA studbook is being developed/updated and the holder is in contact with the Population Manager.

Description: Both genders look alike: mottled brown or black overall with a whitish-brown underbelly and thin, dirty-white fluff covering the head and neck. The base of the neck has a white collar; the eye is yellow or amber.

Program Goals/Objectives:

Maintain genetic and demographic health. This population will need to add founders to the population.

Goal #1 - Increase participating facilities by 3 over the next year and 5 within 5 years. This will allow for an increased number of holding spaces. The TAG has the target population set at 75 birds. Bringing more facilities on line will allow for this goal to be achieved.

Goal #2 - Organize and share best practices for exhibit design and breeding set up. Program leader will do this by maintaining direct communication via email and phone calls. This will allow facilities that have not yet been successful breeding to bring together resources and become successful breeding institutions.

Goal #3 - Increase communication. Program leader will reach out quarterly to each institution to see if they need any information or assistance. This will facilitate better relationships and allow for faster responses to needs that arise.

Conservation Projects/Connections:

The species faces similar threats to other African vultures, being susceptible to habitat conversion to agro-pastoral systems, loss of wild ungulates leading to a reduced availability of carrion, hunting for trade, persecution and poisoning. Legal protection of this species in its home ranges will need to be put in place to slow and eventually reverse the steady decline of the population.

Demography and Genetics:

Current Population Size (N)	59
Males	27
Females	30
Unknown	2
Target Population Size	75
Historic Population Growth Rate	1.039
Projected Population Growth Rate	1.031
Current Founders	15
Gene Diversity (GD) Retained (%)	87.91
Population Mean Kinship (MK)	0.1209
Mean Inbreeding (F)	0.0168
Gene Diversity at 100 Years From Present (%)	76.5



Photo Credit: Ian Shelley, National Zoo

Yellow SSP

California Condor

Species: California Condor (gymnogyps californianus

Current Population: 424

AZA:

• 2014 Space Survey Zoo

Current Population –
 both captive and
 released - 424

 Captive population 201 at 7 institutions with 2 holding for education and 5 for reproduction. `



Wild Population Status: Endangered

CITES I

• IUCN Critically Endangered

FWS Endangered

Program Leader: Mike Wallace

Studbook Keeper: Michael Mace

Description:

Black plumage, with white underwing-coverts. Long ruff feathers also black. Head and neck bare with variable pink orange and red colours. Immature has bare skin grey. Largest obligate avian scavenger in US; highly social K-selected species.

Wingspan: 3 m

Wt. 8-10 K

Program Goals/Objectives:

Primary Goal - Considering genetic, demographic and behavioral factors build 3 disjunct populations (2 in the wild within the species former range and one in captivity). Each population should number at least 150 birds. And each population should be self-sustaining nutritionally and reproductively with acceptable survivorship.

Conservation Projects/Connections:

Since the capture of the entire population of 27 birds in 1987 the species has reproduced well in zoo facilities. Husbandry techniques are still being refined. First released by USFWS at Hopper Mt National Wildlife refuge in Ventura Co. California, they have now been released in 5 areas within their former range including Baja California Mexico. Except for the historical mortality factor of lead poisoning the birds are doing exceptionally well. Condors are highly susceptible to lead ingestion from wild game killed by hunters using lead ammunition. The resulting lead toxicity is the most salient risk to condors and without mitigation of the problem their recovery is in doubt. Non-lead alternatives now exist with nearly equivalent cost and ballistics. Both education and legislation are being employed to influence behavioral change in hunters with highly variable results. Change takes time.

Demographics and Genetics

California Condor (captive population)

(captive population)	
Current Population Size (N)	100
Males	48
Females	50
Unknown	2
Target Population Size	150
Historic Population Growth Rate	~1.12
Projected Population Growth Rate	
Current Founders	17
Gene Diversity (GD) Retained (%)	91.56
Population Mean Kinship (MK)	0.0944
Mean Inbreeding (F)	0.0393
Gene Diversity at 100 Years From Present	
(%)	



Photo Credit: Ken Bohn – San Diego Zoo Safari Park

Yellow SSPAndean Condor

Species: Andean condor (*Vultur*

gryphus)

Current Population:

AZA:

• 2014 Space Survey

Wild Population:

• **CITIES I,** since 1975

• IUCN - NT

• **FWS** - Endangered

Program Leader: Michael Mace **Studbook Keeper:** Ron Webb

Other Regional Program Status:

Description:

Male has comb/caruncle, large neck wattle, and yellow eyes.

Female lacks comb/wattle, and has red eyes.

Caruncle, plumage, etc. used in courtship display.

Plumage black with grayish white secondary feathers and coverts.

White neck ruffle only appears in adults.

Bare skin on head.

Juvenile is brown with dark bare skin – develops adult plumage after 5-8 years.

Adult male 24-33 lb; adult female 17-24 lb.

Wingspan up to 126 in (10.5 ft) – largest flying bird in South America.

Body length 39-51 in (3.25 -4.25 ft).

Lives up to 70 years in zoos, 50-60 years in wild.

Program Goals/Objectives:

Goal #1 - In 2012, the SSP began working with Asociacion Colobiana De Parques Zoologicos Y Arcuarios (ACOPAZOA) to assist them in establishing Andean condors in Colombian zoos that, in the future, would produce offspring for release into the wild.

Goal #2 - In the future, in collaboration with Houston Zoo and Weltvogelpark Walsrode, SSP members will be providing training to key zoo staff on incubation techniques.



Goal #3 - Support and expand the educational outreach programs that have been established, they are Project Wild and Windows on the Wild.

Conservation Projects/Connection:

As stated in the goals; there is work in Columbia to continue developing and increase the current release program.

Demographics and Genetics:

Andean Condor

Current Population Size (N)	71
Males	31
Females	39
Unknown	1
Target Population Size	85
Historic Population Growth Rate	1.03
Projected Population Growth Rate	1.03
Current Founders	36
Gene Diversity (GD) Retained (%)	97.62
Population Mean Kinship (MK)	0.0238
Mean Inbreeding (F)	0
Gene Diversity at 100 Years From Present (%)	84



Species: Cape vulture (Cape griffon vulture)

Gyps coprotheres

Current Population:

AZA: 16.15.0

Wild Population Status

- IUCN = vulnerable
- USFWS = not listed
- CITES = Appendix II

Program Leader:

Susie Kasielke, Los Angeles Zoo

Studbook Keeper:

Susie Kasielke, Los Angeles Zoo



Other Regional Program Status: none known

Description:

Adults are cream to white with dark brown flight feathers and spots on greater wing coverts, gold eyes and blue coracoid patches. Juveniles have light brown, scaled coverts with dark brown flight feathers, brown eyes and red coracoid patches. Weights of wild birds are 7.07-10.90 kg, with wingspans of approximately 2.40 m, females being slightly larger than males.

Found in varied habitats, including open grasslands, savannas and steppes in proximity to mountains, Cape vultures forage exclusively on carrion as part of an avian scavenging guild that includes other vulture species, storks, eagles, kites, corvids and others. The species breeds in colonies of up to 1000 pairs, with stick nests built in cliff ledges as little as 2-3 m apart. Both parents incubate the single egg for 54-56 days and care for the chick. Although the chick fledges at 125-170 days, parents continue caring for it into the following year as the juvenile develops foraging skills.

In 2006-2007, the total population was estimated to be 8,000-10,000 individuals, with 80% of the birds living in 18 core colonies. The overall population decreased by about 10% from 1992-1999 and declined by 60-70% in Eastern South Africa from 1992-2007. The species had been extirpated in Namibia until recent releases of wild birds from South Africa that were injured and rehabilitated, then translocated to their historic range. The current rate of decline is unclear, but Cape vultures are facing the same threats as other African vultures.

In addition to habitat loss to farming and ranching and significant reductions in

populations of large mammals on which the birds feed, vultures are increasingly subjected to poisoning, both unintentional from carcasses dosed by landowners to destroy mammal scavengers, and intentional from elephant and rhino carcasses laced with agricultural pesticides by poachers to avoid detection of their activities. In South Africa, the use of vulture parts for traditional medicine and cultural practices intended to bring good luck is widespread. Cape vultures have frequently been lost to drowning in reservoirs and large livestock waterers. As with large birds all over the world, collision with power lines is a significant cause of mortality. An additional threat may be posed by the use of the drug Diclofenac, which is used in veterinary medicine to treat livestock but is highly toxic to vultures and has therefore resulted in the near-extinction of 3 species of vultures in India and neighboring countries.

Program Goals/Objectives:

- In order to ensure the AZA population is self-sustaining, and to potentially assist with recovery of the species in the wild, this program must develop and implement reliable breeding husbandry practices.
- Additional AZA institutions will be recruited to provide dedicated breeding spaces as well as holding for additional Cape vultures.
- In order to maintain genetic and demographic health in the long term, new founders may need to be added to the population over time. Wild birds that have been injured and rehabilitated but deemed non-releasable may be available.
- The vulture SSPs and Raptor TAG will seek opportunities to initiate and enhance conservation efforts for Africa's vultures.

Conservation Projects/Connections:

- The Vulture Conservation Foundation (VCF), based in Spain, organized the first International Workshop on African Vultures and Poison in Málaga, Spain 8-11 April 2014. Complete proceedings of this workshop are available free online at: http://www.4vultures.org/our-work/anti-poisoning/international-workshopafrican-vultures-poisoning/
- The Rare and Endangered Species Trust, a non-profit organization in Namibia, provides clean carcasses in 2 vulture restaurants, monitors wild populations, provides local education, raises public awareness about vultures and their conservation, and, in collaboration with the deWildt Cheetah and Wildlife Trust, has released rehabilitated Cape vultures from South Africa into historic habitat in Namibia.
- VulPro, a private, non-profit group in South Africa, operates a rehabilitation facility, maintains breeding facilities for non-releasable Cape vultures, monitors wild populations, provides local education and raises public awareness about vultures and their conservation.

Demographics and Genetics:

Cape Griffon Vulture

Current Population Size (N)	26
Males	12
Females	13
Unknown	1
Target Population Size	50
Historic Population Growth Rate	1.031
Projected Population Growth Rate	1.031
Current Founders	3
Gene Diversity (GD) Retained (%)	76.04
Population Mean Kinship (MK)	0.2396
Mean Inbreeding (F)	0
Gene Diversity at 100 Years From Present (%)	53



Photo Credit: Olis Garber, St. Augustine Alligator Faem

Red SSPWhite-backed Vulture

Species: white-backed vulture (African white-backed vulture), *Gyps africanus*

Current Population:

• AZA: 7.8.0

Wild Population Status

- IUCN = endangered
- **USFWS** = not listed
- CITES = Appendix II

Program Leader:

Susie Kasielke, Los Angeles Zoo **Studbook Keeper:**

Susie Kasielke, Los Angeles Zoo

Other Regional Program Status:

none known



Description:

Adults are dark brown with white lower back, underwing coverts and ruff, dark eyes and bare, dark head. Weights of wild birds are 4.15-7.20 kg, with wingspans of approximately 2.18 m, females being larger than males.

Found in varied habitats, including woodlands, savannas and steppes, white-backed vultures forage exclusively on carrion as part of an avian scavenging guild that includes other vulture species, storks, eagles, kites, corvids and others. Breeding may be loosely colonial, with stick nests built in the crowns of trees. Both parents incubate the single egg for 56-58 days and care for the chick. Although the chick fledges at 120-130 days, parents continue caring for it into the following year as the juvenile develops foraging skills. Although the wild population is estimated at 270,000 birds, the white-backed vulture is now listed as endangered by IUCN due to the rapid decline in the population across its extensive range in central and southern Africa. Over an estimated 3 generations, or 55 years, the population has decreased by more than 50% overall and more than 90% in West Africa due to multiple serious threats.

In addition to habitat loss to farming and ranching and significant reductions in populations of large mammals on which the birds feed, vultures are increasingly subjected to poisoning, both unintentional from carcasses dosed by landowners to destroy mammal

scavengers, and intentional from elephant and rhino carcasses laced with agricultural pesticides by poachers to avoid detection of their activities. In West Africa, the use of vulture parts for traditional medicine and cultural practices intended to bring good luck is widespread and has become commercialized. As with large birds all over the world, collision with power lines is a significant cause of mortality. An additional threat may be posed by the use of the drug Diclofenac, which is used in veterinary medicine to treat livestock but is highly toxic to vultures and has therefore resulted in the near-extinction of 3 species of vultures in India and neighboring countries.

Program Goals/Objectives:

- In order to ensure the AZA population is self-sustaining, and to potentially assist with recovery of the species in the wild, this program must develop and implement reliable breeding husbandry practices.
- Additional AZA institutions will be recruited to provide dedicated breeding spaces as well as holding for additional white-backed vultures.
- In order to maintain genetic and demographic health in the long term, new founders may need to be added to the population over time. Wild birds that have been injured and rehabilitated but deemed non-releasable may be available.
- The vulture SSPs and Raptor TAG will seek opportunities to initiate and enhance conservation efforts for Africa's vultures.

Conservation Projects/Connections:

- The Vulture Conservation Foundation (VCF), based in Spain, organized the first International Workshop on African Vultures and Poison in Málaga, Spain 8-11 April 2014. Complete proceedings of this workshop are available free online at: http://www.4vultures.org/our-work/anti-poisoning/international-workshopafrican-vultures-poisoning/
- VulPro, a private, non-profit group, operates a rehabilitation facility, monitors wild populations, provides local education and raises public awareness about vultures and their conservation.
- BirdLife Botswana and other in-country NGOs also provide local education and raise public awareness about vultures and their conservation.

Demographics and Genetics:

AWB Vulture

Current Population Size (N)	20
Males	13
Females	7
Unknown	0
Target Population Size	50
Historic Population Growth Rate	
Projected Population Growth Rate	1.03
Current Founders	4
Gene Diversity (GD) Retained (%)	75
Population Mean Kinship (MK)	0.25
Mean Inbreeding (F)	0
Gene Diversity at 100 Years From Present (%)	46



Photo Credit: Ed Diebold, Riverbanks Zoo

Yellow SSP Spectacled Owl

Species: Spectacled Owl (<u>Pulsatrix</u> perspicillata)

Current Population:

• AZA: 37.32.15 (84)

• 2014 Space Survey

Wild Population Status

- **CITES** = Appendix II
- **IUCN** = Least Concern
- FWS = n/a

Program Leader: Steven Sarro **Studbook Keeper:** Steven Sarro

Other Regional Program Status:

This species is also held in EAZA institutions and the status is similar to the North American population.



Description:

This large owl is native to Central and South America. The back and head is a rich dark brown while the under belly and breast is buffy and lightly barred in some subspecies. The eyes are bordered by white markings giving them their name. Generally, they will lay one or two eggs during breeding events.

Program Goals/Objectives:

Goal #1 - Explore importing 4 - 6 spectacled owls from Trinidad into our managed population to increase genetic diversity. Hopeful import by end of 2016.

Goal #2 - Monitor the outreach program owls and encourage swapping of genetically valuable animals into breeding situations as needed.

Goal #3 - Appoint a new co-coordinator for the SSP to "train the next generation" to be in place by the end of 2015

Conservation Projects/Connections:

 No conservation programs in place at this time. The population is stable in most regions.

Demographics and Genetics

Current Population Size (N)	73
Males	35
Females	34
Unknown	4
Target Population Size	85
Historic Population Growth Rate	1.07
Projected Population Growth Rate	1.01
Current Founders	13
Gene Diversity (GD) Retained (%)	90.71
Population Mean Kinship (MK)	0.0929
Mean Inbreeding (F)	0.0265
Gene Diversity at 100 Years From Present (%)	72.31

Yellow SSP

Eurasian Eagle Owl

Species: Eurasian Eagle Owl (Bubo bubo)

Current Population:

AZA: 61.52.00 (113)2014 Space Survey:

Wild Population Status

• **CITES** = Appendix II

• IUCN = Least Concern

• **FWS** = n/a

Program Leader: R. Harrison Edell Studbook Keeper: R. Harrison Edell



Other Regional Program Status:

This species is held in zoos in every region, but captive populations are not managed outside of North America.

Description:

The Eurasian Eagle Owl (also known as the Great, or Northern Eagle Owl) has a significant range which includes most of Europe and Scandinavia, western Asia, and eastern Asia (north of the Himalayas). Overall, 14 subspecies of Eurasian Eagle Owl are recognized. Weighing between 1.5 and 4.2 Kg, with a wingspan of up to 1.88 m, this is among the world's largest owls, inhabiting woodland, open forest, taiga, and steppe. It has been suggested that both habitat selection and nesting success rates depend primarily on the availability of specific suitable prey species. Highly adaptable, eagle owls may be active either at night or in the day, hunting a variety of prey from the air or an open perch. The majority of the diet consists of small mammals, but may include larger mammals, birds up to the size of herons (*Ardea*) or buzzards (*Buteo*), and reptiles. Breeding as early as two years of age, these owls tend to be monogamous, using the same nesting site year after year; eagle owls have been known to nest on cliffs, in nests built by other birds, or on the ground. As many as four eggs (but more often two) are laid, with a three-day laying interval, and incubated (almost exclusively by the female) for 34-36 days.

The first recorded appearance of Eurasian Eagle Owls in North American zoological collections occurred in December 1959, with the importation of 01.00.01 Danish birds to the San Diego Zoo. The first successful North American captive hatch occurred at Calgary Zoo in July 1970.

While various subspecies (including *Bubo bubo bubo, B. b. turcomanus, B. b. hispanus*) have been maintained historically, AZA's Raptor TAG manages the species only at the specific level.

Program Goals/Objectives:

Goal #1 – Brainstorm potential pitfalls in reproductive management, conducting comprehensive survey of AZA institutions that hold pairs of owls. Despite a high number of recommended breeding pairs, only two AZA institutions (Oklahoma City Zoo, National Aviary) have successfully bred Eurasian Eagle Owls since 1994, producing 16 owlets (from two hens). While this species' husbandry is not challenging, reproductive success is consistently low among AZA collections.

Goal #2 - Monitor outreach program owls, encouraging additional facilities to allow program birds the opportunity to breed during "off season," following National Aviary's management model. Work with AZA's Ambassador Animal Scientific Advisory Group to further strengthen connections (and communication) between outreach animal management and population management communities.

Goal #3 - Expand SSP Steering Committee to involve additional participants; mentor the "next generation" of Program Leaders as part of EEO SSP succession plan.

Conservation Projects/Connections:

 No conservation programs in place at this time. The population is stable in most regions.

Demographics and Genetics

Current Population Size (N)	113
Males	61
Females	52
Unknown	0
Target Population Size	70 / 135
Historic Population Growth Rate	
Projected Population Growth Rate	1.044
Current Founders	22
Gene Diversity (GD) Retained (%)	95.1
Population Mean Kinship (MK)	0.0485
Mean Inbreeding (F)	0.0368
Gene Diversity at 100 Years From Present (%)	73.1



Species: Secretary Bird (Sagittarius serpentarius)

Current Population:

- AZA 30
- 2014 Space Survey 11.9
- Last published studbook (2012) 22.20

Wild Population

- CITES II
- IUCN VU
- FWS

Program Manager: Michelle J P Handrus

Other Regional Program Status:

• EAZA – 30.21.1 in 18 institutions

Description:

Size: 125–150 cm Weight: 2300–4270 g Wingspan: 191–215 cm.

Unmistakable, terrestrial raptor, with long pink legs, long black crest feathers, bare orange face, hooked aquiline bill and long central tail feathers. Grey above, white below with black flight feathers, abdomen and thighs. Female is probably slightly smaller and less bluish than male.

Juvenile is similar to adult, but has shorter tail and crest, with grey barring on white underwing-coverts and undertail-coverts; also paler face; brown edges to grey dorsal feathers, especially in juvenile female. Eye changes from grey to brown and bill from black to blue-grey when adult.

Program Goals/Objectives:

Goal #1 – As a new program manager the first order is to attend studbook school and do an updated studbook and population analysis.

Goal #2 – Evaluate and assess the current holding/exhibit conditions of Secretary birds and discuss breeding strategies to help increase breeding success.

Goal #3 – Long term goal is to produce a husbandry manual but will follow the direction of the TAG as to when that needs to be done.



Conservation Projects/Connections:

No current programs in place at this time.

Demographics and Genetics

Current Population Size (N)	35
Males	20
Females	15
Unknown	0
Target Population Size	35
Historic Population Growth Rate	1.11
Projected Population Growth Rate	
Current Founders	5
Gene Diversity (GD) Retained (%)	83.73
Population Mean Kinship (MK)	0.1627
Mean Inbreeding (F)	0
Gene Diversity at 100 Years From Present	8
(%)	

References: Handbook of Birds of the World Volume 2



African Pygmy Falcon

Species: African Pygmy Falcon (Polihierax semitorquatus)

Current Population:

AZA: 27.20.1 (48)2014 Space Survey

Wild Population Status:

CITES Appendix II

• IUCN Least concern

• FWS N/A

Program Leader: Nicole LaGreco

Studbook Keeper: Nicole LaGreco



Other Regional Program Status: There are no programs in other regions, and less than 12 are housed in facilities outside of North America based on ZIMS data.

Description:

Adult pygmy falcons are white below and on the face, grey above. Females have a rust colored back. There are white spots on the nape. Juveniles have a brown back, similar to adult females but duller in color. The flight feathers of the wings are spotted black and white (more black above, more white below); the tail is barred black and white. They are found in eastern and southern Africa and they are the smallest raptor on the continent. As a small falcon, only 19 to 20 cm long, it preys on insects, small reptiles, and small mammals.

Program Goals/Objectives:

Goal #1 - Import birds from private collection, currently held at EAZA facility, to increase GD.

Goal #2 - Increase parent rearing success--work with current facilities that are successful to develop protocol.

Goal #3 - Increase the number of holding facilities.

Conservation Projects/Connections:

No current programs in place at this time.

Demographics and Genetics

Current Population Size (N)	47
Males	26
Females	21
Unknown	0
Target Population Size	70
Historic Population Growth Rate	1.08
Projected Population Growth Rate	1.06
Current Founders	7
Gene Diversity (GD) Retained (%)	77.26
Population Mean Kinship (MK)	0.2274
Mean Inbreeding (F)	0.1599
Gene Diversity at 100 Years From Present (%)	51



Photo Credit: Cathy Burkey, Dallas Zoo



Lappet-faced Vulture

Species: Lappet-faced vulture (*Torgos tracheliotus*)

Current Population:

AZA: 14.14.0

Space Survey: 27

Wild Population Status

CITES: Appendix II

• IUCN: Vulnerable

USFWS: N/A

Program Leader: Debbie Milligan

Studbook Keeper: Debbie Milligan

Other Regional Programs: N/A



Description:

Weight: 115 cm; 5400-9400 g, mean 6780 g;

Wingspan: 280 cm.

Color of head and exposure of lappets partly dependent on mood and temperature; white down on adult's patagia and thighs forms distinctive flight pattern. Juvenile is brown with some down on head, dark horn-colored bill and no pale areas on underparts. Races differ in extent of lappets and bald head, and in color of bill and thighs, but considerable individual variation (may be clinal); negevensis has patagia buff-colored.

They are large vultures and are impressive to see up close. Their size and character make them a popular species with institutions that have worked with them.

They are also nicknamed the "king vulture" in Africa as they are capable of opening up any carcass with their large strong beak – other vultures will step to the side so that a Lappet may open the carcass for all to share.

Program Goals/Objectives:

Goal #1: Increase the number of zoos producing eggs/chicks. Contact participating facilities about existing breeding set up and offer suggestions. Give suggestions before October 31.

Goal #2: Do a new MateRx for the population and pair birds up to increase the chance of breeding. Have this completed before June 30 so potential moves could be made before breeding season.

Goal#3: Add one new zoo holding this species, preferrably an institution with previous large African vulture experience. Contact previous institutions that have worked with these species to get interests. Do this by July 31, after the MateRx has been completed.

Conservation Projects/Connections:

There are a few survey studies currently being done with Lappets – Endangered Wildlife Trust is doing a study including them in South Africa.

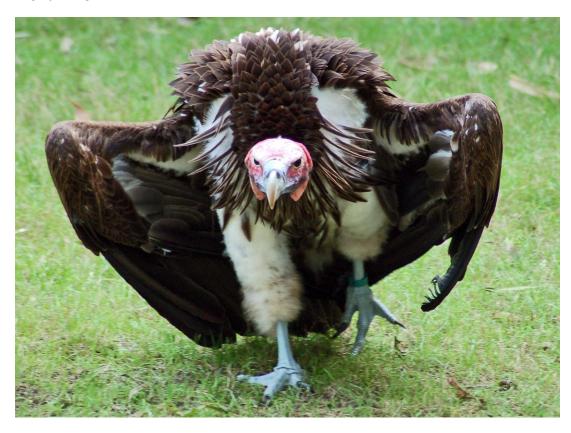
Sahara Conservation Fund is supporting nest studies of Lappets in Niger evaluating nest activity and population trends.

Demographics and Genetics:

Table was not able to be completed by PMC Adjutant.

References:

Kemp, A.C. & Christie, D.A. (2013). Lappet-faced Vulture (Torgos tracheliotos). In: del Hoyo, J., Elliott, A., Sargatal, J., Christie, D.A. & de Juana, E. (eds.) (2013). Handbook of the Birds of the World Alive



YELLOW SSP

Eurasian Black Vulture

Species: Eurasian Black vulture (*Aegypius monachus*)

Current Population:

AZA: 24.29.1 (in 23 facilities)

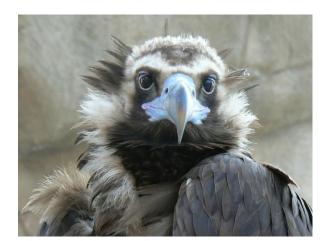
Wild Population Status

• CITES: Appendix II

IUCN: Near Threatened

• **FWS:** not applicable

Program Leader: Mary Jo Willis Denver Zoo



Description:

One of largest Old World vultures with bare skin of head and neck bluish-grey; head covered with blackish down; neck ruff paler on older birds. Immature is somewhat blacker, and top of head covered with black down; juvenile has bare skin pink. Males can weigh from 7 - 11.5 kg and females from 7.5 - 12.5 kg. Wingspan is 250-295 cm.

Program Goals/Objectives:

Conservation Projects/Connections:

Eurasian Black Vulture Program – monitoring wild population and studying the population growth in Mongolia, through the Denver Zoo.

Work to expand the population with the import of non-releaseable birds from South Korea; Denver Zoo coordinating along with SSP manager.

Demographics and Genetics:

Current Population Size (N)	54
Males	24
Females	29
Unknown	1
Target Population Size	70
Historic Population Growth Rate	1.011
Projected Population Growth Rate	1.011
Current Founders	14
Gene Diversity (GD) Retained (%)	93.05
Population Mean Kinship (MK)	0.0695
Mean Inbreeding (F)	0
Gene Diversity at 100 Years From Present (%)	79.32

CANDIDATE SPECIES

Steller's Sea Eagle

Species: Steller's Sea Eagle (*Haliaeetus pelagicus*)

Current Population:

• AZA: 12.11.1 Wild Population Status

CITES: Appendix IIIUCN: Vulnerable

• **FWS**: N/A

Program Leader: Beau Parks

Studbook Keeper: Beau Parks

Other Regional Program Status:

European Studbook held by Lubov Kurilovich at Moscow Zoo (established 1995)

Description:

Adult Steller's Sea Eagles are dark brown overall with white forehead, shoulders, thighs and tail and heavy, yellow feet and beak. The tail is strongly wedge-shaped. Plumage is identical between sexes. A dark morph lacks all white patches except for the tail. Juvenile Steller's Sea Eagles are brown with light streaking throughout and progresses through four or five intermediate plumages before attaining adult coloration.

One of the largest eagles in the World, the larger females weigh between 6.2 and 9.5 kilograms with an average length of one meter and a wingspan of up to 2.5 meters. Males weigh between 4.9 and 6.8 kilograms with an average length of 0.89 meters.

Program Goals/Objectives:

Goal #1 - Make contact with institutional reps and collect taxon reports from all holder institutions. Program leader will become more familiar contact personnel, exhibit specifications and husbandry procedures at those institutions.

Goal #2 - Identify and recruit new holder institutions.

- Compile lists of institutions sorted by interest (high/medium) and SSE readiness (ready now/near future/maybe someday).
- o Identify three (3) institutions with high interest who are ready to receive birds.



o Give special consideration to available off-exhibit holding space.

Goal #3 - Publish studbook by 12/31/15. Population has not been processed with PMC and will be done once the studbook is published.

Conservation Projects/Connections:

The Institute for Wildlife Studies (a non-profit conservation working group) has been studying Steller's Sea Eagles in their breeding range on the east coast of Russia and their wintering grounds in Japan since 1993.

Demographics and Genetics:

This population has not been evaluated by PMC and will be done once the studbook is published.

Sources:

Ferguson-Lees, J. and D.A. Christie. 2001. Raptors of the world. Houghton Mifflin, Boston, MA.

Meyburg, B.U. 1994. Steller's Sea-eagle. P. 123 *in* del Hoyo, J., A. Elliott, and J. Sargatal (eds). Handbook of birds of the world. Vol. 2. New World vultures to guineafowl. Lynx Edicions, Barcelona, Spain.

http://www.birdlife.org/datazone/speciesfactsheet.php?id=3366

http://www.iws.org/species sea eagle.html

http://en.wikipedia.org/wiki/Steller%27s_sea_eagle

https://www.flickr.com/photos/41672617@N04/6989517701

http://globalraptors.org/grin/SpeciesResults.asp?specID=8273

Red SSP Verreaux's Eagle Owl

Species: Verreaux's Eagle Owl (Bubo

lacteus)

Current Population:

AZA: 09.08.03 (20)2014 Space Survey

Wild Population Status

• CITES = Appendix II

• IUCN = Least Concern

• **FWS** = n/a

Program Leader: R. Harrison Edell Studbook Keeper: R. Harrison Edell



Other Regional Program Status:

This species is held in zoos in Europe and South Africa, but captive populations are not managed outside of North America.

Description:

Verreaux's Eagle Owl inhabits open thorny savanna, riparian woodland, savannahs and semidesert within a patchy range that includes parts of central Africa as well as the majority of eastern and southern Africa. Weighing between 1.6 and 3.1 Kg, with a wingspan of up to 140 cm, Verreaux's Eagle Owl is Africa's largest owl species. Highly adaptable, they tend to be crepuscular or nocturnal, hunting a huge variety of prey from the air or an open perch. Diet consists of mammals, birds up to the size of herons (*Ardea*), raptors or secretary birds (*Sagittarius*), reptiles, and even insects (which may be caught on the wing).

Breeding at the age of three to four years, these owls tend to be monogamous, using the same nesting site year after year; Verreaux's Eagle Owls have been known to use nests built by other birds, nest in tree cavities, or on the ground. Two eggs are laid, with up to a sevenday laying interval, and incubated (almost exclusively by the female) for 32-39 days. White and fluffy at hatch, owlets develop quickly, fledging at 63 days. Juveniles of this species have been known to remain with parents for up to two years, and have been observed assisting in the rearing of subsequent broods (a behavior unusual among owls). Parents can be very aggressive within their nesting territory, but like many owls, may also be very sensitive to disturbance, potentially abandoning eggs or young when disturbed.

While the adaptability of this species has allowed them to make use of even altered habitats, human persecution remains among the most significant threats to their future well-being. Negative superstitions about owls are pervasive throughout eastern and southern Africa. While Verreaux's Eagle Owl is common in some parts of the range, global population trends have not been quantified, and the species remains vulnerable to a host of potential threats, due in part to their position at the apex of African savanna food chains. Despite protected status, no detailed data on wild populations exist. As is the case with many large raptors, efforts must be made to protect nesting territories (and potential territories) from additional development.

The first recorded appearance of Verreaux's Eagle Owl in North American zoological collections occurred in September 1941, with the importation of 00.01.00 bird to the Bronx Zoo; the first successful North American captive hatch occurred at Riverbanks Zoo in April 1977. While the species was never historically housed in large numbers in North American collections, there is considerable interest in working with Verreaux's Eagle Owls in the future. Potential additional founder stock has been identified in European and South African collections; the addition of new bloodlines to the North American population would be particularly beneficial.

Program Goals/Objectives:

Goal #1 – Identify AZA partners willing and able to participate in an importation of new founder stock, either from European zoo collections or from Africa.

Goal #2 – Monitor outreach program owls, encouraging additional facilities to allow program birds the opportunity to breed during "off season," following National Aviary's management model. Work with AZA's Ambassador Animal Scientific Advisory Group to further strengthen connections (and communication) between outreach animal management and population management communities.

Goal #3 – Evaluate long-term prognosis for this species; if no improvement in demographics or genetic status are noted in the next five years (in time for the next Raptor TAG RCP), recommend phase out.

Conservation Projects/Connections:

 No conservation programs in place at this time. The population is stable in most regions.

Demographics and Genetics

Current Population Size (N)	20
Males	9
Females	8
Unknown	3
Target Population Size	Unk
Historic Population Growth Rate	Unk
Projected Population Growth Rate	Unk
Current Founders	6
Gene Diversity (GD) Retained (%)	78.01
Population Mean Kinship (MK)	0.2199
Mean Inbreeding (F)	0.0147
Gene Diversity at 100 Years From Present (%)	Unk



Species: Hooded Vulture (Necrosyrtes monachus)

Current Population:

- AZA 20.14.1 (35 at ten institutions)
 (2012 AZA studbook)
- 2014 Space Survey 32

Wild Population

- CITES I
- IUCN Endangered
- FWS Not listed

Program Manager: Tom Schneider

Other Regional Program Status: None



Description: Small Old World vulture that can be maintained in open exhibits or covered aviaries. They can be kept with many other avian species including flamingos, spoonbills, and crowned cranes. They are not winter hardy, and shelter must be provided when temperatures drop below 40 °F. Some individuals can be very skittish when in close proximity to people and care must be taken when housed in small confined spaces, such as winter holding stalls or quarantine areas.

Program Goals/Objectives:

Goal #1/Essential Action(s) Improve sustainability of species / Update studbook by September 2015 and publish BTP by fall 2016.

Goal #2/Essential Action(s) Improve sustainability of species / Recruit two additional institutions to participate in this program by 2016.

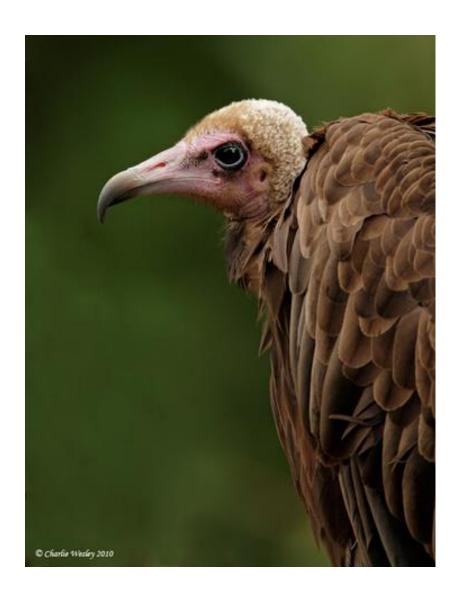
Goal #3/Essential Action(s) Conservation Education / Develop educational message describing threats hooded vultures face in the wild.

Conservation Projects/Connections:

This species has undergone a rapid decline throughout most of its range. Major threats include poisoning to hide the location of poacher kills, hunting for bush meat, and loss of habitat. No current AZA programs in place at this time.

Demographics and Genetics:

Current Population Size (N)	35
Males	20
Females	14
Unknown	1
Target Population Size	50
Historic Population Growth Rate	0.99
Projected Population Growth Rate	1.024
Current Founders	14
Gene Diversity (GD) Retained (%)	92.04
Population Mean Kinship (MK)	0.0.796
Mean Inbreeding (F)	0
Gene Diversity at 100 Years From Present	11.9%



Candidate Species

Harpy Eagle

Species: Harpy Eagle (Harpia harpyja)

Current Population:

• AZA: 15 (8.7)

2014 Space Survey

Wild Population Status

CITES I

IUCN: Near Threatened

FWS



Studbook Keeper: Vacant

Other Regional Program Status:

Description: The Harpy Eagle, *Harpia harpyja*, is the heaviest and most powerful of all eagles. Historically, the species had a wide range extending throughout tropical America from southern Mexico to northern Argentina. Today, however, it is considered rare and near threatened, especially in the northern part of its range. Wild Harpy Eagles are declining in number due mainly to deforestation and trophy shooting.

The species is dimorphic, with females being significantly larger than the males. Adult wild Harpy Eagles only breed every 2-3 years due to the considerable parental care involved. Nests are large structures of sticks built by both sexes in the fork of an emergent tree. A two egg clutch is common, although only one chick is raised to maturity. The incubation period is 54-56 days and chicks fledge at $^{\sim}$ 140 days. The female carries out most of the incubation, but is assisted by the male. In the wild, juveniles remain in the nest territory for at least 12 months.

Program Goals/Objectives:

The current population of harpy eagles is 15 animals in AZA institutions. Demographic analyses indicated if the population continues to grow at its historic rate (approximately one hatch per year), the population will reach the target size set by the Taxon Advisory Group in 2009 of 30 animals in about 15 years. Only 2 pairs have successfully hatched chicks. The pair at San Diego, which has since died and the sibling pair at Miami MetroZoo. There has been a recent import of a captive reared pair from Portugal. Recommend 1) 3 Females to breed and 2) no transfers

Goal #1 – Evaluate current pairs and their set ups and see what may be missing in getting these large birds to breed. Cross reference with what is known of the birds which have been successful. Should have a preliminary survey available by end of year 2015.

Goal #2 – Investigate the possibility of adding more institutions to work with Harpy eagles.

Conservation Projects/Connections:

Demographics and Genetics

Current Population Size (N)	15
Males	8
Females	7
Unknown	0
Target Population Size	30
Historic Population Growth Rate	1.017
Projected Population Growth Rate	1.044
Current Founders	3
Gene Diversity (GD) Retained (%)	74.38
Population Mean Kinship (MK)	0.2562
Mean Inbreeding (F)	0
Gene Diversity at 100 Years From Present (%)	40

Appendix VI

	Scientific Name	Sex ratio of specimens currently in breeding facilities (e.g., 2.2.0)		nens specimens tly in currently in ling holding/ s (e.g., education 0) facilities?			ns / in a <u>/</u> on	Sex ratio of specimens that you plan to have in breeding facilities in five years?			Sex ratio of specimens that you plan to have in holding education facilities in five years?		
New World Vultures		M	F	U	M	F	U	M	F	U	М	Г	U
King Vulture	Sarcorhamphus papa	20	20		11	14	2	26	25		7	11	5
Andean Condor	Vultur gryphus	16	19		4	4		17	17	3	4	5	
Turkey Vulture	Cathartes aura	4	4	3	35	33	28	1	3	5	31	26	37
California Condor	Gymnogyps californianus	21	21	5	2	6		23	20		2	18	
Black Vulture	Copagyps atratus		1		14	11	12		2		12	9	21
Old World Vultures													
Eurasian Black Vulture	Aegypius monachus	17	18		3	9		21	22	2	3	4	4
Bearded Vulture	Gypaetus barbatus							1	1	4			
Palm-nut Vulture	Gyoheirax angolensis	3	2					2	2				
African White-backed Vulture	Gyps africanus	5	4		1			7	7				
Oriental White-backed Vulture	Gyps bengalensis				1						1		
Cape Griffon	Gyps coprotheres	16	14			1		26	26				2
Eurasian Griffon	Gyps fulvus					1						1	
Ruppell's Griffon	Gyps ruppelli	15	20		7	9		26	27	1	6	1	2
Hooded Vulture	Necrosyrtes monachus	14	13		1	4		13	13		1	3	1
Egyptian Vulture	Neophron percnopterus	3	2					5	5				2
Red-headed Vulture	Sarcogyps calvus												
Lappet-faced Vulture	Torgos tracheliotus	14	11					16	17		1	1	

1					l							'	
White-headed Vulture	Trigonoceps occipitalis	1			1			2	2				
Harries Families ato												<u> </u>	
Hawks, Eagles, etc													
Cooper's Hawk	Accipiter cooperii				1						1		1
Eurasian Sparrowhawk	Accipter nisus												
Sharp-shinned Hawk	Accipiter striatus												
White-tailed Hawk	Buteo albicaudatus												
Red-tailed Hawk	Buteo jamaicensis	5	5	1	35	51	22	6	5	2	33	46	31
Rough-legged Hawk	Buteo lagopus				2	2	3				2	2	3
Red-shouldered Hawk	Buteo lineatus				3	1	6				2		7
Grey Hawk	Buteo nitidus					1						1	
Broad-winged Hawk	Buteo platypterus				1	2	2					2	4
Red-backed Hawk	Buteo polyosoma												
Ferruginous Hawk	Buteo regalls	1			1	3		1			1	3	1
Jackal Buzzard	Buteo rufofuscus				1								1
Hawaiian Hawk	Buteo soliterius				1	1	1				1	1	1
Swainson's Hawk	Buteo swainsonii	2			5	3	5	2			4	2	6
Harris Hawk	Parabuteo unicintus	2	3	2	43	26	6	1	2		41	24	19
Northern Harrier	Circus cyaneus						1						1
Mississippi Kite	Ictinia mississippiensis				3	3	3				1	3	2
Black Kite	Milvus migrans												
Bald Eagle	Haliaeetus leucocephalus	20	18	2	57	76	8	17	14	3	53	73	19
Stellar's Sea Eagle	Haliaeetus peligicus	7	7	3	3	1		8	8				
African Fishing Eagle	Haliaeetus vocifer	1	1			6		2	2	1	1	5	
White-tailed Sea Eagle	Haliaeetus leucogaster	1	1					1	1				

Golden Eagle	Aquila chrysaetos	1	2		10	12	1	3	3	1	8	13	5
Tawny Eagle	Aquila rapex												
Verreaux'z Eagle	Aquila verreauxi												
Harpy Eagle	Harpia harpyja	5	4	1				7	7	1	1	1	
Ornate Hawk Eagle	Spizaetus ornatus	1	1			1		1	1			1	
African Crowned Eagle	Stephanoaetus coronatus	3	2			1		3	3				
Bataleur Eagle	Terathoplus ecaudatus	2	2		3	5	1	4	4		3	3	2
Secretary Bird	Sagittarius serpentarius	11	9		4	1		14	15		2	1	1
Osprey	Pandion haliaetus				1	2					1	2	
Crested Caracara	Polyborus plancus	3	5	1	4	6	1	4	5	1	4	4	7
Falcons													
Merlin	Falco columbarius				1	3					1	2	1
Prairie Falcon	Falco mexicanus				1	1	1				1		1
Peregrine Falcon	Falco peregrinus	2	1		5	12	4	3	3		7	12	14
Gyrfalcon	Falco rusticolus				2	1						1	1
American Kestral	Falco sparverius				25	9	5			4	28	12	19
Lanner Falcon	Falco biarmicus				2	3			1		3	4	2
Saker Falcon	Falco cherrug												
Lagger Falcon	Falco jugger				1	1					1	1	
African Pygmy Falcon	Polihierax semitorquatus	15	11	5	6	1		18	18	7	7	2	7
Barn Owls													
Barn Owl	Tyto alba	9	7		37	36	22	13	15	2	36	31	38
Typical Owls													
_					I	l	l				1		l

Short-eared Owl	Saw whet Owl	Aegolius acadicus				2	1	2	1	1		2		7
Long-eared Owl														
Burrowing Owl Athene cunicularia 16 22 15 17 1 22 22 3 18 15 17 12	Short-eared Owl	Asio flammeus					2						3	2
Great Horned Owl	Long-eared Owl	Asio otus		1	1			3			2	2	2	2
Great Horned Owl	Rurrowing Owl	Athene cunicularia	16	22		15	17	1	22	22	2	10	15	12
Ferruginous Pygmy Owl Glaucidiun brasillanum Glaucidiun Glaucidiun brasillanum Glaucidiun brasillanum Glaucidiun Glaucidiun brasillanum Glaucidiun Glaucidiun brasillanum Glaucidiun brasillanum Glaucidiun Glaucidiun brasillanum Glaucidiun brasillanum Glaucidiun Gla	Burrowing Owi	Athene cunicularia	10			13	17	•			3	10	2	12
Elf Owl Micrathene whitneyi	Great Horned Owl	Bubo virginianus	3	4		41	36	16	3	8		37	37	22
Snowy Owl Bubo sandiaca 10 12 6 8 2 14 17 2 8 8 6	Ferruginous Pygmy Owl	Glaucidiun brasillanum												
Snowy Owl Bubo sandiaca 10 12 6 8 2 14 17 2 8 8 6	Flf Owl	Micrathene whitneyi						1	1	1				1
Eastern Screech Owl Otus asio 4 2 3 39 30 63 2 2 2 3 38 34 77 Western Screech Owl Otus kennicotti 2 1 7 6 1 7 6 1 7 7 8 5 5 Spotted Owl Strix occidentalis 2 4 3 15 14 26 4 5 17 15 30 Eurasian Eagle Owl Bubo lacteus 8 4 1 14 12 3 9 7 3 13 13 13 4 Milky Eagle Owl Bubo bubo 5 4 5 1 6 6 6 4 4 5 17 15 30 Mottled Owl Ciccabba virgata 5 1 6 6 6 4 4 5 17 15 30 White-faced Scops Owl Otus leucotis 2 7 1 1 6 6 6 6 4 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Lii GWI	Wildrametre Williamy						•						•
Western Screech Owl Otus kennicotti 2 1 7 6 1	Snowy Owl	Bubo sandiaca	10	12		6	8	2	14	17	2	8	8	6
Spotted Owl Strix occidentalis 1	Eastern Screech Owl	Otus asio	4	2		39	30	63	2	2		38	34	77
Spotted Owl Strix occidentalis 1	Western Screech Owl	Otus kennicotti		2	1	7	6	1		1		7	8	5
Barred Owl Strix varia 2 4 3 15 14 26 4 5 17 15 30	Western Screech Own	Otas Kerimoota			•	'		•		-		'	0	
Eurasian Eagle Owl	Spotted Owl	Strix occidentalis					1						1	
Milky Eagle Owl Bubo bubo 5 4 5 1 6 6 4 2 Mottled Owl Ciccabba virgata Image:	Barred Owl	Strix varia	2	4	3	15	14	26		4	5	17	15	30
Milky Eagle Owl Bubo bubo 5 4 5 1 6 6 4 2 Mottled Owl Ciccabba virgata Image:														
Mottled Owl Ciccabba virgata	Eurasian Eagle Owl	Bubo lacteus	8	4		14	12	3	9	7	3	13	13	4
White-faced Scops Owl Otus leucotis 2 1 4 3 1 1 Spectacled Owl Pulsatrix perspicillata 8 11 12 8 2 14 13 2 11 6 5 Tawny Owl Strix aluco Image: Control of the control of	Milky Eagle Owl	Bubo bubo	5	4		5	1		6	6		4		2
White-faced Scops Owl Otus leucotis 2 1 4 3 1 1 Spectacled Owl Pulsatrix perspicillata 8 11 12 8 2 14 13 2 11 6 5 Tawny Owl Strix aluco Image: Control of the control of	Mottled Owl	Ciccabba virgata												
Spectacled Owl Pulsatrix perspicillata 8 11 12 8 2 14 13 2 11 6 5 Tawny Owl Strix aluco Image: Control of the cont														
Tawny Owl Strix aluco 4 6 1	White-faced Scops Owl	Otus leucotis	2			1			4	3		1	1	
Great Gray Owl Strix nebulosa 4 6 1 1 1 Additional Species Not Listed Image: Contract of the	Spectacled Owl	Pulsatrix perspicillata	8	11		12	8	2	14	13	2	11	6	5
Additional Species Not Listed Buteo brachyurus 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 2 1 <td>Tawny Owl</td> <td>Strix aluco</td> <td></td>	Tawny Owl	Strix aluco												
Additional Species Not Listed Buteo brachyurus 1 1 1 1 1 1 2 1 1 1 1 1 2 1 1 1 1 1 1 2 1 <td></td>														
Listed Buteo brachyurus 1 1 Aplomado Falcon Falco femoralis 1 1 1 1 2 Gyrfalcon/Saker Hybrid 1 <	Great Gray Owl	Strix nebulosa	4	6					4	6		1	1	1
Short-tailed Hawk Buteo brachyurus 1 1 Aplomado Falcon Falco femoralis 1 1 1 1 2 Gyrfalcon/Saker Hybrid 1 <td></td>														
Gyrfalcon/Saker Hybrid 1 1		Buteo brachyurus						1						1
	Aplomado Falcon	Falco femoralis				1	1					1	1	2
	Gvrfalcon/Saker Hvbrid					1						1		
Pharoah Eagle Owl Bubo ascalaphus 1 1	Syriaison Calcor Hybrid													
	Pharoah Eagle Owl	Bubo ascalaphus				1							1	

Mountain Pygmy Owl	Glaucidium gnoma					1					
Oriental Bay Owl	Phodius badius			1	1				1	1	
Martial Eagle		1	1	1			1	1	1		
Yellow headed vulture	Cathartes melambrotus										1



Photo Credit: Tracy Aviary

Appendix VII

Raptor TAG Program Leaders

SPECIES	SCOPE OF MANAGEMENT PROGRAM	CHAIR, MANAGER OR CHAMPION	INSTITUTION	PHONE	FAX	E-MAIL
King Vulture Sarcoramphus papa	Green SSP Regional Studbook	Shelly Collinsworth	Fort Worth Zoo	817-759-7212		scollinsworth@fortworthzoo.org
Andean Condor Vultur gryphus	Yellow SSP	Michael Mace	San Diego Zoo Safari Park	760-738-5078	760- 480-9574	mmace@sandiegozoo.org
Andean Condor Vultur gryphus	North American Regional Studbook	Ron Webb	San Diego Zoo Safari Park	760-747-8702		rwebb@sandiegozoo.org
California Condor Gymnogyps californianus	Yellow SSP	Mike Wallace	San Diego Zoo	619-744-3313	619-744-3314	mwallace@sandiegozoo.org
California Condor Gymnogyps californianus	International Studbook	Michael Mace	San Diego Wild Animal Park	760-738-5078	760-480-9573	mmace@sandiegozoo.org
Eurasian Black Vulture Aegypius monachus	Yellow SSP Regional Studbook	Mary Jo Willis	Denver Zoo	720-496-9010	720-337-1626	mjwillis@denverzoo.org
African White-backed Vulture Gyps africanus	Red SSP Regional Studbook	Susie Kasielke	Los Angeles Zoo	323-644-4745	323-662-9786	susie.kasielke@lacity.org
Cape Griffon Vulture Gyps coprotheres	Red SSP Regional Studbook	Susie Kasielke	Los Angeles Zoo	323-644-4745	323-662-9786	susie.kasielke@lacity.org
Ruppell's Griffon Vulture Gyps rueppelli + G. r. rueppelli	Yellow SSP Regional Studbook	Bryan Emberton	Disney's Animal Kingdom	407-938-2808	407-939-6391	bryan.emberton@disney.com
Hooded Vulture Necrosyrtes monachus	Red SSP Regional Studbook	Tom Schneider	Detroit Zoo	248-398-0903		tschneider@detroitzoo.org
Stellar's Sea Eagle Haliaeetus pelagicus + H. p. pelagicus	Candidate Species Regional Studbook	Beau Parks	San Diego Zoo	619-231-1515 ext. 4424		bparks@sandiegozoo.org
Harpy Eagle Harpia harpyja	Candidate Species International Studbook	Beau Parks	San Diego Zoo	619-231-1515 ext. 4424		bparks@sandiegozoo.org
Lappet-faced Vulture Torgos tracheliotus	Red SSP Regional Studbook	Debbie Milligan	Dallas Zoo	214-670-6826	214-670-7450	Debbie.milligan@dallaszoo.com
Secretary Bird Sagittarius serpentarius	Red SSP Regional Studbook	Michelle Handrus	San Diego Zoo Safari Park	760-747-8702		mhandrus@sandiegozoo.org
African Pygmy Falcon Polihierax semitorquatus	Red SSP Regional Studbook	Nicole LaGreco	San Diego Zoo	619-744-3355		nlagreco@sandiegozoo.org
Eurasian Eagle Owl Bubo bubo + B. b. bubo Only	Yellow SSP Regional Studbook	R. Harrison Edell	Dallas Zoo	469-554-7201		harrison.edell@dallaszoo.com

Verreaux's Eagle Owl Bubo lacteus	Red SSP Regional Studbook	R. Harrison Edell	Dallas Zoo	469-554-7201		harrison.edell@dallaszoo.com
Spectacled Owl Pulsatrix perspicillata + P. p. perspicillata	Yellow SSP Regional Studbook	Steve Sarro	Smithsonian National Zoological Park	202-633-3242		sarros@si.edu
Burrowing Owl Athene cunicularia + A. c. floridana + A. c. hypugaea	Yellow SSP Regional Studbook	Yvonne Strode	Peoria Zoo	309-686-3365 ext. 302	309-685-6240	ystrode@peoriazoo.org
Snowy Owl Nyctea scandiaca	Yellow SSP Regional Studbook	Cody Hickman	Chicago Zoological Society – Brookfield Zoo			Cody.hickman@czs.org



Photo Credit: Chelsea Stover, Dallas Zoo

Appendix VIII

Program Review Table

Green SSP	Program Start Date	Manager Start Date	Last Report Submit Date	Next Report Due	Program Manager	Organization
King Vulture	2/10/1988	25-Sep-07		2/13/2017	Shelly Collinsworth	Fort Worth Zoo
Yellow SSP	Program Start Date	Manager Start Date	Last Report Submit Date	Next Report Due	Program Manager	Organization
Andean Condor	10/1/2003	10/1/2003	10-Apr-07	2/29/2016	Michael Mace	San Diego Zoo Safari Park
California Condor	10/5/1988	10/5/1988	01-Sep-07	N/A	Mike Wallace	San Diego Zoo
Eurasian Black Vulture	8/19/1993	10/12/2000	2/20/12	1/9/2017	Mary Jo Willis	Denver Zoo
Ruppell's Griffon Vulture	3/15/2006	3/15/2006	12/17/20012		Bryan Emberton	Disney's Animal Kingdom
Burrowing Owl	4/8/1996	12/31/1997	10/14/2014		Yvonne Strode	Peoria Zoo
Eurasian Eagle Owl	3/15/2006	3/15/2007	8/25/2011	6/8/2015	Harrison Edell	Dallas Zoo
Snowy Owl	3/15/2006	4/4/12	3/12/2011	7/25/2017	Cody Hickman	Chicago Zoological Society - Brookfield Zoo
Spectacled Owl	2/12/1992	12/31/1992	4/3/2012		Steve Sarro	Smithsonian National Zoological Park
Red SSP	Program Start Date	Manager Start Date	Last Report Submit Date	Next Report Due	Program Manager	Organization
African White-backed Vulture	3/15/2006	3/15/2006	1/7/2015		Susie Kasielke	Los Angeles Zoo and Botanical Gardens
Cape Griffon Vulture	3/15/2006	3/15/2006	1/7/2015		Susie Kasielke	Los Angeles Zoo and Botanical Gardens
Lappet-faced Vulture	3/15/2006	3/15/2006	6/15/12	12/14/2015	Debbie Milligan	Dallas Zoo
Hooded Vulture	5/15/2009	8/24/2010		9/29/2015	Tom Schneider	Detroit Zoo
Harpy Eagle	3/15/2006	4/4/2012	12/1/2014		Vacant	
Secretary Bird	3/15/2006	4/1/2015	11/16/2012		Michelle Handrus	San Diego Zoo Safari Park
Stellar's Sea Eagle	4/1/2009	4/1/2015	9/1/2011		Beau Parks	San Diego Zoo
African Pygmy Falcon	7/8/1996	8/5/2008	8/22/12		Nicole LaGreco	San Diego Zoo
Verreaux's Eagle Owl	3/15/2006	3/20/2007	8/25/2011	6/8/2015	Harrison Edell	Dallas Zoo

Studbook Programs	Program Start Date	Manager Start Date	Last Report Submit Date	Next Report Due	Program Manager	Organization
Andean Condor Studbook	12/31/1988	9/5/2013	9/5/2012	6/2016	Ron Webb	San Diego Zoo Safari Park
California Condor Studbook	10/5/1988	6/16/1998	3/14/2014	1/31/2017	Michael Mace	San Diego Zoo Safari Park
Eurasian Black Vulture Studbook	8/16/1993	10/12/2000	7/3/2013	6/27/2016	Mary Jo Willis	Denver Zoological Gardens
African White-backed Vulture Studbook	3/15/2016	3/15/2006	1/7/2015		Susie Kasielke	Los Angeles Zoo and Botanical Gardens
Cape Griffon Vulture Studbook	3/15/2006	3/15/2006	1/7/2015		Susie Kasielke	Los Angeles Zoo and Botanical Gardens
Hooded Vulture Studbook	5/15/2009	8/24/2010	12/17/2012	9/29/2015	Tom Schneider	Detroit Zoo
King Vulture Studbook	2/10/1988	8/24/2010	2/13/2015		Shelly Collinsworth	Fort Worth Zoo
Lappet-faced Vulture Studbook	3/15/2006	3/15/2006	3/29/2013	12/14/2015	Debbie Milligan	Dallas Zoo
Ruppell's Griffon Vulture Studbook	3/15/2006	3/15/2006	2/1/2015		Bryan Emberton	Disney's Animal Kingdom
African Pygmy Falcon Studbook	7/8/1996	8/5/2008	8/20/2015	8/20/2018	Nicole LaGreco	San Diego Zoo
Harpy Eagle Studbook	3/15/2006	4/4/2012	2/8/2011		Janice Owlett	San Diego Zoo
Secretary Bird Studbook	3/15/2006	4/1/2015	11/16/2012		Michelle Handrus	San Diego Zoo Safari Park
Stellar's Sea Eagle Studbook	4/1/2009	4/1/2015	9/1/2011		Beau Parks	San Diego Zoo
Burrowing Owl Studbook	4/8/1996	12/31/1997	1/10/2014	12/15/2016	Yvonne Strode	Peoria Zoo
Eurasian Eagle Owl Studbook	3/15/2006	20-Mar-07	7/21/2014	4/17/2017	Harrison Edell	Dallas Zoo
Snowy Owl Studbook	3/15/2006	4/4/2012	7/11/2013	6/1/2016	Cody Hickman	Chicago Zoological Society - Brookfield Zoo
Spectacled Owl Studbook	2/12/1992	12/31/1992	12/6/2013	11/1/2016	Steve Sarro	Smithsonian National Zoological Park
Verreaux's Eagle Owl	3/15/2006	3/20/2007	8/25/2011	6/8/2015	Harrison Edell	Dallas Zoo

Appendix IX

PROGRAM SPECIES ROLES

To assist with understanding the role that raptors play in our programs here is a brief look at what each of our program species has to offer. This is not an all inclusive list and reflects the TAG's belief in making sure that every species we work with has an education component that can be used to raise awareness for the group.

SPECIES	Conservation Function	Education Function	Research Function
King Vulture	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	
Andean Condor	Genetic reservoir for Colombian reintroduction program. AZA population genetically and demographically stable	In-situ and ex-situ conservation and education	In-situ research
California Condor	Genetic reservoir for North American reintroduction program.	In-situ conservation and education	
Eurasian Black Vulture	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	Artificial insemination study
African White-backed Vulture	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	
Cape Griffon Vulture	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	
Ruppell's Griffon Vulture	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	
Hooded Vulture	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education Interesting adaptability story	
Stellar's Sea Eagle	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	
Harpy Eagle	Ensure AZA population is genetically and demographically stable	In-situ and ex-situ conservation and education	
Lappet-faced Vulture	Ensure AZA population is genetically and demographically stable	In-situ and ex-situ conservation and education	
Secretary Bird	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	Ex-situ research

African Pygmy Falcon	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	
Eurasian Eagle Owl	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	
Spectacled Owl	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	
Burrowing Owl	Ensure AZA population is genetically and demographically stable	In-situ and ex-situ conservation and education	
Snowy Owl	Ensure AZA population is genetically and demographically stable	In-situ and ex-situ conservation and education	
Verreaux's Eagle Owl	Ensure AZA population is genetically and demographically stable	Ex-situ conservation and education	

Appendix X

Program Goals

Common Name / Scientific Name	King Vulture; Sarcoramphus papa
Animal Program Designation	Green SSP
Primary Role	Conservation action
Goal #1 / Essential Action(s)	On going maintainence of genetic and demographic health of the long term population.
Goal #2 / Essential Action(s)	Planned re-integration of imprinted program animals into breeding situations once they reach 4 to 5 years of age and become too aggressive to handle. The intent is to reduce the number of single birds who are no longer in use as program animals due to aggression, and reintigrate them into the breeding population.
Goal #3 / Essential Action(s)	Investigate mixing and <i>exchanging</i> genetic stock with EAZA bloodlines before the next planning session.
Common Name / Scientific Name	Burrowing Owl; Athene cunicularia
	Yellow SSP
Animal Program Designation	
7. minut i rogium Besignation	Conservation Action
Primary Role	
Goal #1 / Essential Action(s)	Increase genetic diversity; make recommendations annually – full PMP
	every 3 years, use MateRx other 2 years. Research history of past non-releasable birds successfully breeding, i.e., do any specific injuries prevent copulation? Encourage participating institutions to acquire non-releasable wild caught bird whenever possible – if not possible, contact SSP coordinator (goal of at least 2 new founders annually).
Goal #2 / Essential Action(s)	Maintain non-breeding population <i>for</i> use as program animals. Survey all current and potential program participants to quantify need and stress importance of not using genetically valuable birds for education (in conjunction with annual needs/wants survey). If necessary, breed pairs with lower MK values for education. Disseminate information to increase value of using species as program animals (add section to 2015 studbook)

Goal #3 / Essential Action(s)	Increase participation of AZA institutions in current/future release programs. Survey current holding institutions on interest/available resources (in conjunction with 2015 needs/wants survey in Aug/Sept). Work with institutions and rehabilitators in northern states of range to recruit wild caught birds.
Common Name / Scientific Name	Snowy Owl; Bubo scandiacus
Common Name / Scientific Name	Yellow SSP
Animal Program Designation	
Primary Role	Conservation Action
Goal #1 / Essential Action(s)	Recruit participants to <i>research</i> the effects of altered photoperiod on breeding success in snowy owls. In the hopes that snowy owls will breed earlier in the season.
Goal #2 / Essential Action(s)	Build relationships with rehab facilities to bring in new founder stock that has been deemed unable to be released back into the wild.
Goal #3 / Essential Action(s)	Increase the number of participating institutions by at least two facilities by December 2016
Common Name / Scientific Name	Ruppell's Vulture; Gyps rueppelli
Animal Program Designation	Yellow SSP
Primary Role	Conservation Action
Goal #1 / Essential Action(s)	Increase participating facilities by 3 over the next year and 5 within 5 years. This will allow for an increased number of holding spaces. The TAG has the target population set at 75 birds. Bringing more facilities on line will allow for this goal to be achieved.
Goal #2 / Essential Action(s)	Organize and share best practices for exhibit design and breeding set up. I will do this by maintaining direct communication via email and phone calls. This will allow facilities that have not yet been successful breeding to bring together resources and become successful breeding institutions.
Goal #3 / Essential Action(s)	Increase communication. I will reach out quarterly to each institution to see if they need any information or assistance. This will facilitate better relationships and allow for faster responses to needs that arise.
Common Name / Scientific Name	California condor; Gymnogyps californianus

Animal Program Designation	Yellow SSP
Primary Role	Conservation Action
Goal #1 / Essential Action(s)	Considering genetic, demographic and behavioral factors build 3 disjunct populations (2 in the wild within the species former range and one in captivity each numbering at least 150 birds. Self-sustaining nutritionally and reproductively with acceptable survivorship.
Common Name / Scientific Name	Andean condor; Vultur gryphus
Animal Program Designation	Yellow SSP
Primary Role	Conservation Action
Goal #1 / Essential Action(s)	In 2012, the SSP began working with Asociacion Colobiana De Parques Zoologicos Y Arcuarios (ACOPAZOA) to assist them in establishing Andean condors in Colombian zoos that, in the future, would produce offspring for release into the wild.
Goal #2 / Essential Action(s)	 In the future, in collaboration with Houston Zoo and Weltvogelpark Walsrode, SSP members are providing training to key zoo staff on incubation techniques.
Goal #3 / Essential Action(s)	Support and expand the educational outreach programs that have been established. Project Wild and Windows on the Wild
Common Name / Scientific Name	Spectacled Owl; Pulsatrix perspicillata
Animal Program Designation	Yellow SSP
Primary Role	Conservation Action
Goal #1 / Essential Action(s)	Explore importing 4 – 6 spectacled owls from Trinidad into our managed population to increase genetic diversity. Hopeful import by end of 2016.
Goal #2 / Essential Action(s)	Monitor the outreach program owls and encourage swapping of genetically valuable animals into breeding situations as needed.
Goal #3 / Essential Action(s)	Appoint a new co-coordinator for the SSP to "train the next generation" to be in place by the end of 2015.
Common Name / Scientific Name	Secretary Bird; Sagittarius serpentarius
Animal Program Designation	Red SSP
Primary Role	Conservation Action
Goal #1 / Essential Action(s)	As a new program manager the first order is to attend studbook school and do an updated studbook and population analysis.
Goal #2 / Essential Action(s)	Evaluate and assess the current holding/exhibit conditions of Secretary birds and discuss breeding strategies to help increase breeding success.
Goal #3 / Essential Action(s)	Long term goal is to produce a husbandry manual but will follow the direction of the TAG as to when that needs to be done.
	AC' D E1 D1/1
Common Name / Scientific Name	African Pygmy Falcon; Polihierax semitorquatus
Animal Program Designation	Red SSP

Primary Role	Conservation Action
Goal #1 / Essential Action(s)	Import birds from private collection, currently held at EAZA facility, to increase gene diversity.
Goal #2 / Essential Action(s)	Increase parent rearing successwork with current facilities who are successful to develop protocol.
Goal #3 / Essential Action(s)	Increase the number of holding facilities.
Common Name / Scientific Name	Steller's Sea Eagle; Haliaeetus pelagicus
Animal Program Designation	Red SSP
Primary Role	Conservation Action
Goal #1 / Essential Action(s)	Make contact with institutional reps and collect taxon reports from all holder institutions. Familiarize myself with points of contact, exhibit specifications and husbandry procedures at those institutions.
Goal #2 / Essential Action(s)	Identify and recruit new holder institutions.
Goal #3 / Essential Action(s)	Publish studbook by 12/31/15. Population has not been processed with PMC and will be done once the studbook is published.
Common Name / Scientific Name	Harpy Eagle; <i>Harpia harpyja</i>
Animal Program Designation	Candidate Species
Primary Role	Conservation Action
Goal #1 / Essential Action(s)	Evaluate current pairs and their set ups and see what may be missing in getting these large birds to breed. Cross reference with what is known of the birds which have been successful. Should have a preliminary survey available by end of year 2015.
Goal #2 / Essential Action(s)	Investigate the possibility of adding more institutions to work with Harpy eagles.
	Cape vulture; Gyps coprotheres
Common Name / Scientific Name	Red SSP
Animal Program Designation	Exhibit/General Education, Assurance populatoin
Primary Role Goal #1 / Essential Action(s) 2014	
	develop reliable breeding husbandry practices
Progress Coal #3 / Essential Action(s) 2014	holding institutions are documenting & sharing information on breeding
Goal #2 / Essential Action(s) 2014	recruit additional AZA institutions to provide increased breeding space
Progress Coal #3 / Essential Action (c) 2014	SSP coordinator continues to approach potential facilities
Goal #3/ Essential Action(s) 2014	seek opportunities to initiate and enhance conservation efforts
Progress Goal #1 / Essential Action(s) 2015	individual institutions have initiated contact with NGOs continue documenting & sharing information; encourage others to follow
Goal #2/ Essential Action(s) 2015	one new facility has appropriate breeding space & has requested birds
Goal #3/Essential Action(s) 2015	coordinate efforts among AZA facilities

Common Name / Scientific Name	White-backed vulture, Gyps africanus
Animal Program Designation	Red SSP
Primary Role	Exhibit/General Education, Assurance populatoin
Goal #1 / Essential Action(s) 2014	develop reliable breeding husbandry practices
Progress	holding institutions are documenting & sharing information on breeding
Goal #2 / Essential Action(s) 2014	recruit additional AZA institutions to provide increased breeding space
Progress	SSP coordinator continues to approach potential facilities
Goal #3/ Essential Action(s) 2014	seek opportunities to initiate and enhance conservation efforts
Progress	individual institutions have initiated contact with NGOs
Goal #1 / Essential Action(s) 2015	continue documenting & sharing information; encourage others to follow
Goal #2/ Essential Action(s) 2015	one new facility has appropriate breeding space & has requested birds
Goal #3/Essential Action(s) 2015	coordinate efforts among AZA facilities

Appendix XI

Non-responsive institutions for the space survey:

Bramble Park Zoo
Bronx Zoo
Chattanooga Zoo at Warner Park
Fresno Chaffee Zoo
Kansas City Zoo
National Aviary
Oregon Zoo
Pittsburgh Zoo and PPG Aquarium
Roger Williams Park Zoo
SeaWorld San Antonio
Vancouver Aquarium Marine Science Center

Appendix XII

AZA RAPTOR TAG Taxon Listing

FAMILY CATHARTIDAE (NEW WORLD VULTURES)

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& 5)	TAG Recommendation
Turkey Vulture Cathartes aura Subspecies (4) C.a. aura, C.a. septentrionalis, C.a. ruficollis, C.a. jota	North, Central and South America.	Not globally threatened (NGT) Widespread and abundant with increasing range.	Phase Out
Lesser Yellow- headed Vulture Cathartes burrovianus	Central America S to C Colombia and NW Venezuela, lowland South America.	NGT. Status and distribution poorly known. Populations appear widespread and common.	Not recommended
Greater Yellow- headed Vulture Cathartes melambrotus	Amazonia, including S. Venezuela and the Guianas.	NGT.	Not recommended
American Black Vulture Coragyps atratus	S USA, N Mexico, Central America and N& E South America.	NGT; widespread and common	Phase Out
King Vulture Sarcoramphus papa	Tropical forest and savanna regions of Central and South America (Mexico – N Argentina).	NGT. CITES III Honduras	Green SSP
California Condor Gymnogyps californianus	Historic range = Mountains of Pacific coast of North America.	Endangered. CITES I. One of the most critically endangered bird species. Extinct in wild from 1982-1992. Current Reintroduction program from captive population back to former range	Yellow SSP
Andean Condor Vultur gryphus	Andes from Venezuela to Tierra del Fuego. Sea level in Chile and Peru.	NGT. CITES I. Currently threatened over most of range. Reintroduction effort using captive bred birds underway in Columbia and Venezuela.	Yellow SSP

FAMILY PANDION

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol.	TAG
	_	<u>2& 5</u>)	Recommendation
Osprey	<i>P.h.haliaetus</i> – Scandinavia E	NGT. CITES II. Frequent to	Phase Out

Pandion haliaetus	to Japan, S to Mediterranean,	abundant throughout most of	
4 subspecies	Red Sea & Cape Verde Is.;	range.	
P.h.haliaetus, P.h.	winters S. Africa, India, W.		
carolinensis,	Indonesia & Philippines.		
P.h.ridgwayi,	<i>P.h. carolinensis</i> – Labrador W		
P.h.cristatus	to Alaska and S. to Arizona and		
	Florida. Winters S to Peru and		
	S Brazil.		
	<i>P.h. ridgwayi</i> – Caribbean,		
	including Bahamas, Cuba and		
	Belize.		
	<i>P.h. cristatus</i> – Australia e to		
	New Caledonia, N through New		
	Guinea, Java and Sulawesi.		

FAMILY ACCIPITRIDAE (HAWKS & EAGLES)

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& 5)	TAG Recommendation
African Cuckoohawk Aviceda cuculoides 3 subspecies A.c.cuculoides, A.c. batesi, A.c. verreauxii.	A.c.cuculoides – Senegal E to SW Ethiopa, S to Nigeria and N Zaire. A.c. batesi – lowland rainforest from Sierra Leone E to E Uganda & S to N Angola. A.c. verreauxii – woodland & coastal riparian & montane forest Kenya S to N Namibia and S. Africa.	NGT. CITES II.	Not recommended
Madagascar Cuckoo-hawk Aviceda madagascariensis	Madagascar.	NGT. CITES II. Considered near threatened	Not recommended
Jerdon's Baza Aviceda jerdoni 5 subspecies A.j.ceylonesis, A.j. Jerdoni, A.j. borneensis, A.j. magnirostris, A j. celebensis	A.j. ceylonesis – SW India & Sri Lanka. A.j. jerdoni – NE India – Burma, S China, Thailand, parts of Indochina to N Malay Pennisula. A.j. borneensis – Borneo. A.j. magnirostris – Phillipines. A.j. celebensis – Sulawesi, Banggai Is & Sula Is.	NGT. CITES II. Uncommon to rare throughout range.	Not recommended
Pacific Baza Aviceda subcristata 13 subspecies: A.s. timorlauensis, A.s. pallida, A.s. reinwardtii, A.s. stresemanni, A.s. rufa, A s. waigeuensis, A s. obscura, A.s. stenozona, A.s.	Islands off Sulawesi, Lesser Sundas, N, C & S Moluccas, Waigeo I, Biak I, E, W New Guinea, Aru Is, Admiralty Is, Bismarck Archipelago, Solomon Is, N & NE Australia.	NGT. CITES II.	Not recommended

megala , A s. coultasi, A.s. bismarckii, A.s. gurneyi, A s. subcristata Black Baza Aviceda leuphotes 4 subspecies A.l. wolfei, A l.	S & C China, NE India, Nepal, SW India, S Burma, W Thailand, South Andaman I.	NGT. CITES II. Uncommon in range.	Not recommended
syama, A l. leuphotes, A .l. andamanica			
Grey-headed Kite Leptodon cayanensis 2 subspecies L.c. cayanensis, L.c. monachus	Mexico, S to W Ecuador, Amazonia, Guianas Trinidad, C Brazil, to E Bolivia, N Argentina, Paraguay.	NGT. CITES II. Rare to uncommon in range but not considered threatened.	Not recommended
White-collared Kite Leptodon forbesi	NE Brazil.	Insufficiently known, CITES II. Forest habitat has been reduced to 1% of former range. Considered by Handbook to the Birds of the World vol 2 to be one of the most endangered raptors in world.	Not recommended
Hook-billed Kite Chondrohierax uncinatus 3 subspecies C.u. uncinatus, C.u. mirus, C.u. wilsonii	W Mexico, extreme S USA, S through C America, Trinidad, Guianas, Brazil to E Peru, E Boliva, Paraguay, N Argentina, Grenada, E Cuba.	NGT. CITES II. Race <i>wilsonii</i> CITES I. Race <i>mirus</i> of Grenada seriously endangered with only 15-30 individuals.	Not recommended

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol.	TAG
	ge	2& 5)	Recommendation
Long-tailed	New Guinea, W Papuan islands,	NGT. CITES II	Not recommended
Buzzard	Aru Is.		
Henicopernis			
longicauda			
New Britain	New Britain.	Indeterminate. CITES II. Seldom	Not recommended
Buzzard		seen. Biology unknown	
Henicopernis			
infuscatus			
Western Honey-	Europe and W Asia, from Spain,	NGT. CITES II. Stable	Not recommended
buzzard	France, SE England and E	population	
Pernis apivorus	Scandinavia, W Russia, Caucasus,		
	to R Ob in SW Siberia. Winters		
	in Africa.		
Crested Honey-	S Siberia E to Amurland &	NGT. CITES II. Status poorly	Not recommended
buzzard	Sakhalin, S to Manchuria, Japan,	known.	
Pernis	India, Sri Lanka, Burma, SC		
ptilorhyncus	China, N, E & W Phillipines,		
6 subspecies	Palawan, Malay Peninsula,		
P.p. ruficollis, P.p.	Sumatra, Borneo, and Java.		
philippensis,			
P.p. palawanesis,			
P.p. torquatus,			

P.p. ptilorhynchus,			
P.p. orientalis Barred Honeybuzzard Pernis celebensis 2 subspecies P.c. celebensis, P.c. steerei	Sulawesi, Muna I & Banggai Is, Phillipines.	NGT. CITES II. Status poorly known.	Not recommended
Square-tailed Kite Lophoictinia isura	Australia.	NGT. CITES II. Highly specialized species. Declining due to habitat destruction and egg collecting.	Not recommended
Black-breasted Buzzard Hamirostra melanosternon	Australia, except S and E.	NGT, CITES II. Declining in SE portion of range due to habitat destruction, egg collecting and poisoning of carcasses it scavenges on.	Not recommended
American Swallow-tailed Kite Elanoides forficatus 2 subspecies E.f. forficatus, E.f. yetapa	E.f. forficatus - coastal SE USA to N. Mexico. E.F. yetapa - S Mexico (except Yucatán) S through Central America (excluding El Savador) to E Bolivia, Paraguay and NE Argentina (Misiones).	NGT. CITES II. Relatively common over much of its extensive distribution.	Not recommended
Bat Hawk Macheiramphus alcinus 3 subspecies M.a. alcinus, M.a. papuanus, M.a. anderssoni	M.a. alcinus - S Burma, W Thailand, Malay Peninsula, Sumatra, Borneo and NC Sulawesi. M.a. papuanus - E New Guinea. M.a. anderssoni - Senegambia E to Ethiopia and S to South Africa, Madagascar.	NGT. CITES II. Status difficult to assess due to nocturnal habits and custom of roosting in densely foilaged trees; often considered uncommon to rare.	Not recommended
Pearl Kite Gampsonyx swainsonii 3 subspecies G.s. leonae, G.s. Swainsonii, G.s. magnus	G.s. leonae - Nicaragua, N Colombia through Venezuela and Trinidad to Guyana and Surinam, and S to R Amazon. G.s. swainsonii - Brazil S of R Amazon to E Peru, E Bolivia, Paraguay and N Argentina. G.s. magnus - Coastal W Colombia, Ecuador and N Peru.	NGT. CITES II. Locally distributed and not generally common, but probably benefits from forest destruction, e.g. numerous in partly deforested areas of S Córdoba (NW Columbia).	Not recommended
Common Black-shouldered Kite Elanus caeruleus 4 subspecies E.c. caeruleus, E.c. vociferus, E.c. hypoleucus, E.c. wahgiensis	E.c. caeruleus - SW Iberian Peninsula, most of Africa and SW Arabia. E.c. vociferus - Pakistan E to S & E China, Indochina and Malay Peninsula. E.c. hypoleucus - Sumatra, Java, Borneo, Philippines, Sulawesi, Kalao and Lesser Sundas. E.c. wahgiensis - New Guinea.	NGT. CITES II. One of the commonest birds of prey throughout its wide range.	Not recommended

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Common Black-shouldered Kite Elanus caeruleus 4 subspecies E.c. caeruleus, E.c. vociferus, E.c. hypoleucus, E.c. wahgiensis	E.c. caeruleus - SW Iberian Peninsula, most of Africa and SW Arabia. E.c. vociferus - Pakistan E to S & E China, Indochina and Malay Peninsula. E.c. hypoleucus - Sumatra, Java, Borneo, Philippines, Sulawesi, Kalao and Lesser Sundas. E.c. wahgiensis - New Guinea.	NGT. CITES II. One of the commonest birds of prey throughout its wide range.	Not recommended
Australian Black- shouldered Kite Elanus axillaris	Australia.	NGT. CITES II. Common and widespread; has increased in range and numbers in cleared and farmed areas of S Australia in response to creation of habitat and introduction of suitable prey.	Not recommended
White-tailed Kite Elanus leucurus 2 subspecies E.l. majusculus, E.l. leucurus	E.l. majusculus - W & S USA (from Oregon to C Florida, occasionally to South Carolina) and N Mexico; also most of Central America (race uncertain). E.l. leucurus - Panama, S through Amazonia to C Argentina (Mendoza and Buenes Aires) and C Chile (Valdivia).	NGT. CITES II. Seems to be increasing over much of range, especially from S Mexico to Panama, with Nicaraguan birds apparently of California origin.	Not recommended
Letter-winged Kite Elanus scriptus	Australia, mainly in interior.	NGT. CITES II. Conservation status is of some concern. Generally uncommon; core breeding range and population small and subject to habitat degradation by overgrazing,	Not recommended
African Swallow- tailed Kite Chelictinia riocourii	Senegambia E to Ethiopia and Somalia, and S to NE Uganda and NE Kenya, in Kedong Valley.	NGT. CITES II. Little studied; status difficult to assess due to nomadic habits.	Not recommended
Snail Kite Rostrhamus sociabilis 3 subspecies R.s plubeus, R.s. major, R.s. sociabilis	R.s plumbeus - Florida Everglades (SE USA), Cuba and I of Pines. R.s. major - East Mexico and Petén (Guatemala). R.s. sociabilis - Honduras and Nicaragua through Panama to South America, occurring W of Andes in Columbia and Ecuador, and E of Andes throughout to NE Argentina, except Guyana Massif and Brazilian Plateau.	NGT. CITES II. Often abundant in suitable habitat throughout most of range.	Not recommended
Slender-billed Kite Rostrhamus hamatus	E Panama, through N & E Colombia, to W, N & SE Venezuela and Surinam; also S	NGT. CITIES II. Poorly known, and requires further study.	Not recommended

	through Amazonian Brazil to E Peru and N Bolivia (Beni); s.		
Double-toothed Kite Harpagus bidentatus 2 subspecies H.b. fasciatus, H.b. bidentatus	H.b. fasciatus - E Mexico (Oaxaca and Veracruz) to W Colombia and W Ecuador. H.b. bidentatus - E Colombia and E Ecuador through Amazonia to E Bolivia (Beni) and SE Brazil; Trinidad.	NGT. CITES II. No immediate cause for concern; but species will not persist in areas of extensive deforestation.	Not recommended
Rufous-thighed Kite Harpagus diodon	Locally in the Guianas, through E Brazil (Amazonia W to R Branco and R Purús) S to E Bolivia (Santa Cruz), Paraguay and N Argentina (Misiones, Jujuy and Salta).	NGT. CITES II. Status very poorly known; generally rare, but perhaps overlooked.	Not recommended
Mississippi Kite Ictinia mississippiensis	Southern tier of USA, from Arizona to Florida. Winters in South America, S to N Argentina and Paraguay.	NGT. CITES II. Declined early in century but currently (1993) on increase.	Phase Out
Plumbeous Kite <i>Ictinia plumbea</i>	NE Mexico (Tamaulipas) S through Central America to South America, W of Andes S to W Ecuador, E of Andes S to Paraguay and N Argentina.	NGT. CITES II. Relatively common in parts of Brazil and Colombia.	Not recommended

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
Scientific Ivanic	Kange	5)	Recommendation
Plumbeous Kite	NE Mexico (Tamaulipas) S	NGT. CITES II. Relatively	Not recommended
Ictinia plumbea	through Central America to	common in parts of Brazil and	1 vot 1000mmenaca
Tettitta pitimoea	South America, W of Andes S	Colombia.	
	to W Ecuador, E of Andes S to	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
	Paraguay and N Argentina.		
Red Kite	M.m. milvus - S Sweden E to	Insufficiently known. CITES II.	Not recommended
Milvus milvus	Ukraine and S through C	Historical decline from 19 th century	
2 subspecies	Europe to W & C	or earlier, leading to current	
M.m. milvus, M.m.	Mediterranean Basin; Wales;	disjunct distribution; basic causes	
fasciicauda	Caucasus; formerly Canary Is.	direct persecution and use of	
	<i>M.m. fasciicauda</i> - Cape Verde	poisoned baits.	
	Is.		
Black Kite	<i>M.m. migrans</i> - NW Africa and	NGT. CITES II. One of comonest	Phase-Out
Milvus migrans	Europe E to C Asia (Tien Shan)	of all diurnal raptors, and	
7 subspecies	and S to Pakistan; winters S to	regionally the commonest, e.g. in	
M.m. migrans,	Africa S of Sahara.	Japan and probably in Africa.	
M.m. lineatus,	M.m. lineatus - Siberia E to		
M.m. formosanus,	Amurland and Japan S to N		
M.m. govinda,	India, N Burma and N China		
M.m. affinis, M.m.	and Ryukyu Is; winters S to S		
aegyptius,	Iraq, S India and SE Asia.		
M.m. parasitus	M.m. formosanus - Taiwan and		
	Hainan (S China).		
	M.m. govinda - E Pakistan E		
	through India and Sri Lanka to		
	Indochina and Malay Peninsula.		
	M.m. affinis - Sulawesi and		
	possibly Lesser Sunda Is; E New Guinea and New Britain;		
	New Guinea and New Britain;		

Whistling Kite	N Australia S (in E) to Victoria. M.m. aegyptius - Egypt, SW Arabia and coastal E Africa S to Kenya. M.m. parasitus - Africa S of Sahara, Cape Verde Is, Comoro Is and Madagascar. Australia, New Caledonia, and	NGT. CITES II. Common to	Not recommended
Haliastur sphenurus	New Guinea (except NW and central mountains).	abundant on coasts, and in tropics where benefits from human activity; locally declining in S through drainage of wetlands and reduction in food supply.	
Brahminy Kite Haliastur indus 4 subspecies H.i. indus, H.i. intermedius, H.i. girrenera, H.i. flavirostris	H.i. indus - Pakistan, India and Sri Lanka through SE Asia to S China. H.i. intermedius - Malay Peninsula, Greater and Lesser Sundas, Sulawesi and related small islands, Philippines and Sula Is (C Moluccas). H.i. girrenera - Moluccas, New Guinea, Bismarck Archipelago and Australia. H.i. flavirostris - Solomon Is.	NGT. CITES II. Has undergone dramatic decline throughout Java. Also declining in non-coastal parts of Thailand.	Not recommended
White-bellied Sea- eagle Haliaeetus leucogaster	India and Sri Lanka through SE Asia, Philippines, Wallacea, New Guinea and Bismarcks to Australia and Tasmania.	NGT. CITES II. Generally common, though some localized declines in S Australia through habitat destruction or disturbance to nest sites; also declining in Thailand.	Not recommended
Sanford's Sea- eagle Haliaeetus sanfordi	Solomon Is, including Bougainville I and Buka I.	NGT. CITES II. Range and total population size small, biology little known; species formerly considered threatened.	Not recommended
African Fish-eagle Haliaeetus vocifer	Senegambia E to Ethiopia and S to South Africa.	NGT. CITES II. Common on many major rivers and lakes, often at high densities for such a large predator, needing only 300-600 m of shore per pair, or 3-15 ha of fishing area; at lower densities along forested rivers.	Phase Out

Madagascar Fisheagle coast regions, and possibly on E Haliaeetus vociferoides Cast. May also have extended to Mauritius historically. Madagascar; originally in all W coast regions, and possibly on E coast, but now confined to NW coast. May also have extended to Mauritius historically. Endangered. CITES II. Only 45-50 breeding pairs at 48 occupied territories estimated in 1985; some pairs with mean inter-nest distance of 1.48 km. More intensive recent surveys (1992) indicate twice the previous known density in S part of range (21 pairs, as opposed to 10);	Common Name Scientific Name			Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
eagle Haliaeetus vociferoides coast regions, and possibly on E coast, but now confined to NW vociferoides coast. May also have extended to Mauritius historically. breeding pairs at 48 occupied territories estimated in 1985; some pairs with mean inter-nest distance of 1.48 km. More intensive recent surveys (1992) indicate twice the previous known density in S part of range (21 pairs, as opposed to 10);				<u>5</u>)	Recommendation
to Mauritius historically. of 1.48 km. More intensive recent surveys (1992) indicate twice the previous known density in S part of range (21 pairs, as opposed to 10);	eagle Haliaeetus	breeding pairs at territories estimates	coast regions, and possibly on I coast, but now confined to NW	breeding pairs at 48 occupied territories estimated in 1985; some	Not recommended
	rocycrotaes	of 1.48 km. Mor surveys (1992) i previous known range (21 pairs, maximum total r		of 1.48 km. More intensive recent surveys (1992) indicate twice the previous known density in S part of range (21 pairs, as opposed to 10); maximum total may be c. 100	
Pallas's Fish-eagle C & S Asia, from Kazakhstan Rare. CITES II. Formerly much Not recomm	Dollog's Fish angle		agla C & S Agia from Vazalshetan	1	Not recommended

11 1.	('11 4' A) M 1'	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Haliaeetus	(possibly extinct) to Mongolia	more widespread; in first half of	
leucoryphus	and NE China, S to Pakistan, N	present century, breeding range	
	India, Burma and SC China	stretched to Caspian Sea, where	
	(Sichuan).	species last bred in 1947. Appears	
		to have undergone a general	
		decline, for causes that are not fully	
		understood. Breeding population of	
		former USSR may now be extinct	
White-tailed Sea-	SW Greenland; W Iceland; N &	Vulnerable. CITIES I. Marked	Phase-out
eagle	C Eurasia S to Greece and	decline historically from 19 th	
Haliaeetus	Turkey, S Caspian Sea, L	century, with drastic reduction and	
albicilla	Balkash and Manchuria;	extinction from extensive areas,	
aioiciia	formerly to lower R Yangtze;	including British Is, Faeroes, W	
	has bred on Attu I (W Aleutian	Europe and most of Mediterranean.	
	Is). Winters S to N		
	Mediterranean, Persian Gulf,		
	Pakistan, N India and SE China.		
Bald Eagle	H.l. washingtoniensis -	NGT. CITES I. Complex situation:	Monitor Program
Haliaeetus	Aleutian Is, Alaska, Canada and	N populations not threatened and	
leucocephalus	N USA.	locally abundant, e.g. in coastal	
2 subspecies	H.l. leucocephalus - S USA S	Alaska and British Columbia; but	
H.l.	to NW Mexico.	in lower Canada and most of	
washingtoniensis,		contiguous 48 USA states, numbers	
H.l. leucocephalus		reduced and species often	
		considered either threatened or	
		endangered.	
Steller's Sea-eagle	Coastal regions along W Bering	Rare. CITES II. Total world	Red SSP
Haliaeetus	Sea, S of Paul's Bay	population c. 7500 birds, including	Red 551
	(Koryakland), and Sea of	5600 adults; majority (1200-1500	
pelagicus			
	Okhotsk; winters S to	pairs) breed in Kamchatka; c. 2200	
	Ussuriland, Japan and Korea.	birds winter on Hokkaido. Main	
		problems include habitat	
		alterations, with large-scale	
		destruction of old forests; shooting	
		by hunters; and natural collapse of	
		eyries.	
Lesser Fishing-	<i>I.h. plumbea</i> - Kashmir SE	NGT. CITES II. Apparently	Not recommended
eagle	through Himalayas of India and	uncommon in Sulawesi, Borneo	
Ichthyophaga	Nepal to Burma, N Indochina	and Sumatra, but common in	
humilis	and Hainan.	reserve of Padang-Sugihan (S	
2 subspecies	<i>I.h. humilis</i> - Malay Peninsula	Sumatra) in mid-1980s; said to be	
I.h. plumbea, I.h.	(from Tenasserim) and Sumatra	locally common along forested	
humilis	through Borneo to Sulawesi and	streams in Burma; probably	
	Banggai Is; recently recorded	relatively secure in all of these	
	on Buru (S Moluccas).	areas. However, declining in Nepal	
		and India,	
Grey-headed	India, Nepal and Sir Lanka E	NGT. CITES II. Species seems to	Not recommended
Fishing-eagle	through Indochina and Malay	be secure, but locally numbers	1,00 recommended
Ichthyophaga	Peninsula to Greater Sundas, N	reduced or species extirpated,	
ichthyaetus	& E Philippines and Sulawesi.	primarily through loss of forests.	
Palm-nut Vulture		NGT. CITES II.	Phase Out
	Senegambia E to Kenya coast	NOT. CITES II.	r nase Out
Gypohierax	and S to Angola and NE South		
angolensis	Africa.	NOT CUTTO II C	NI O
Bearded Vulture	G.b. barbatus - NW Africa and	NGT. CITES II. Currently	Phase Out
Gypaetus barbatus	SW Europe through Turkey,	considered near-threatened.	
2 subspecies	Egypt, Middle East, Iran and	Massive decline in 19 th and 20 th	
G.b. barbatus, G.b.	Afghanistan to Mongolia and C	centuries, particularly in Europe,	

meridionalis	& NE China. G.b. meridionalis - sw Arabia and very locally in E & S Africa.	but also in N and S Africa and W Asia; only small isolated populations survived.	
Egyptian Vulture Neophron percnopterus 2 subspecies N.p. percnopterus, N.p. ginginianus	N.p. percnopterus - S Europ E to C Asia (E Kazakhstan) and NW India, and S through N Africa, Arabia and Sahel zone to N Tanzania; SW Angola and NW Namibia; also Canary Is, Cape Verde Is and Socotra. N.p. ginginianus - Nepal and India (except NW).	NGT. CITES II. Has undergone fairly general decline, at least in Europe; population now more stable, and even recovering in some areas.	Phase Out

Common Name Scientific Name	Dange	Status in Wild (from Handbook	TAC
Scientific Name	Range	to the Birds of the World vol. 2& 5)	TAG Recommendation
Hooded Vulture Necrosyrtes monachus	Mauritania E to Ethiopia and S to Namibia and South Africa, except areas of uninterrupted forest or desert.	NGT. CITES II.	Red SSP
African White- backed Vulture Gyps africanus	Mauritania E to Ethiopia and S to N and E South Africa.	NGT. CITES II.	Red SSP
Indian White- backed Vulture Gyps bengalensis	SE Iran, Afghanistan (perhaps irregularly) and Pakistan through Nepal and India to SC China (Yunnan), Indochina and N Malay Peninsula.	NGT. CITES II.	Phase-out
Long-billed Vulture Gyps indicus 2 subspecies G.i. tenuirostris, G.i. indicus	G.i. tenuirostris - Lower Himalayas, from Kashmir through Nepal to Assam, and SE into Indochina and N Malay Peninsula. G.i. indicus - SE Pakistan and India S of R Ganges, exept extreme S.	NGT. CITES II. Fairly common throughout most of range, although usually less numerous than sympatric <i>G. bengalensis</i> . Rare and local throughout SE Asia, but reasons for decline unknown; may now be extinct in Thailand.	Not recommended
Ruppell's Griffon Gyps rueppellii 2 subspecies G.r. rueppellii, G.r. erlangeri	G.r. rueppellii - SW Mauritania E to Sudan, N to Air Massif (NW Niger) and S to Uganda, Kenya and N Tanzania. G.r. erlangeria - Ethiopia, Eritrea and NW Somalia, possibly ranging to S Arabia.	NGT. CITES II. Less studied than other griffons; several colonies in Kenya reported to have declined through agricultural encroachment and poisoning. Widely killed for use in traditional medicines.	Yellow SSP
Himalayan Griffon Gyps himalayensis	Himalayas from N Pakistan and N India through S Tibet and Nepal to Bhutan, N Assam and C China; also NE through Pamirs to Tien Shan, and possibly also into Tabagatai and Altai.	NGT. CITES II.	Not Recommended
Eurasian Griffon Gyps fulvus 2 subspecies Gyps f. fulvus, Gyps f. fulvescens	Gyps f. fulvus - NW Africa and Iberian Peninsula E through Balkans, Turkey, Middle East, Arabia and Iran to Pamirs and Altai.	NGT. CITES II.	Phase-out

	1	T	T
	Gyps f. fulvescens - Afghanistan, Pakistan and N India E to Assam.		
Cape Griffon Gyps coprotheres	Centered on Lesotho and South Africa, extending to Namibia, Botswana, Zimbabwe, S Mozambique and Sqaziland, rarely wandering N to Zambia.	Rare. CITES II. At least 83 colonies and 4400 breeding pairs estimated to remain, but has undergone range retraction and loss of peripheral colonies; declines continue at some major colonies.	Red SSP
Eurasian Black (Cinereous) Vulture Aegypius monachus	S Palearctic, from Spain, Balearic Is and Balkans through Turkey, Caucasus, Iran and Afghanistan to S Siberia, Mongolia, N China and extreme N India. Winters S to Sudan, Middle East, Pakistan, NW India and Korea.	Vulnerable. CITIES II. Threatened at world level, partly because nests on trees which are often easily accessible.	Yellow SSP
Lappet-faced Vulture Torgos tracheliotus 3 subspecies T.t. tracheliotus, T.t. nubicus, T.t. negevenis	T.t. tracheliotus - Extreme SW Morocco; S Mauritania E to Ethiopia and Kenya, S to South Africa. T.t. nubicus - Egypt and N Sudan. T.t. negevenis - S Isreal and Arabian Peninsula.	NGT. CITES II. Thinly scattered as a breeding species throughout its wide range, with concentrations of up to c. 40 pairs found only in Namibia, Botswana, Zimbabwe, South Africa, Tanzania and possibly Arabia.	Yellow SSP
White-headed Vulture Trigonoceps occipitalis	Senegal E to Ethiopia (including Dahlak Archipelago) and Somalia, then S to Namibia and N South Africa.	NGT. CITES II. Generally uncommon, at 0.25k-1.2 birds/100 km of road counts, with highest values of up to 9.3 birds/100 km from woodland-grassland mosaic in Cameroon and Uganda.	Phase-out
Red-headed Vulture Sarcogyps calvus	E Pakistan through India, except extreme S, and Nepal to SC China (S Yunnan), Burma, Indochina and N Malay Peninsula.	NGT. CITES II. Because territorial, never as numerous as other sympatric vulture species.	Phase-out
Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& 5)	TAG Recommendation
Short-toed Snake- eagle Ciraetus gallicus	NW Africa and SW Europe N to Gulf of Finland and E to L Balkash and Iran; Indian Subcontinent; Lesser Sundas (from Lombok to Timor). W populations winter in Sahel zone.	NGT. CITES II. Declined markedly in past, disappearing from most of C & N Europe in 19 th century; possibly stable at end of 20 th century.	Not recommended
Beaudouin's Snake-eagle Ciraetus beaudouini	S Mauritania and Senegambia E to SW Sudan, N Uganda and NW Kenya.	NGT. CITES II. Generally uncommon.	Not recommended
Black-breasted Snake-eagle Ciraetus pectoralis	E Sudan and Ethiopia S so South Africa.	NGT. CITES II. Widespread and often locally common.	Not recommended
Brown Snake- eagle Ciraetus cinereus	Senegambia E to N Ethiopia and S to South Africa.	NGT. CITES II. Widespread and conspicuous but often at low density, such as 1 pair/200 km ² .	Not recommended
Southern Banded	Kenya to NE South Africa	NGT. CITES II. Currently	Not recommended

Snake-eagle	along the E coast of Africa and	considered near-threatened.	
Ciraetus	further inland along major	Locally common, but habitat often	
fasciolatus	rivers.	patchy and restricted.	
Western Banded	Senegambia E to S Sudan and	NGT. CITES II. Locally common	Not recommended
Snake-eagle	W Ethiopia, then S to R	but with patchy linear distribution.	140t recommended
Ciraetus	Zambezi, occurring S to Angola	Vulnerable to degradation of	
cinerascens	and Namibia in W, and	riverine habitat, e.g. in NE	
cinerascens	Zimbabwe and Zambia in E.	Namibia, where only 14 pairs now	
	Zimbabwe and Zambia iii E.	estimated to occur.	
Datalaum Eagla	Consequis E to Coden and		Phase Out
Bateleur Eagle	Senegambia E to Sudan and	NGT. CITES II. Widespread and	Phase Out
Terathopius	Ethiopia then S to Namibia and South Africa.	common at densities of 1 pair/140-	
ecaudatus	South Africa.	200 km ² . In Kenya, or 1 pair/30-60	
		km ² . In Transvaal (estimated total	
C + 1C +	6 1 21 1 12 1	of 600 pairs).	NT 4 1 1
Crested Serpent-	S.c. cheela - N India and Nepal.	NGT. CITES II. Throughout	Not recommended
eagle	S.c. melanotis - India S from	extensive range generally	
Spilornis cheela	Gujarat and Gangetic Plain.	widespread and common,	
21 subspecies	S.c. spilogaster - Sri Lanka.	sometimes abundant, but locally	
S.c. cheela, S.c.	S.c. burmanicus - Burma, SW	uncommon.	
melanotis,	China, Thailand and Indochina.		
S.c. spilogaster,	S.c. davisoni - Andaman Is;		
S.c. burmanicus,	possibly also Nicobar Is.		
S.c. davisoni, S.c.	S.c. minimus - C Nicobar Is.		
minimus, S.c.	S.c. ricketti - N Vietnam and		
ricketti, S.c.	SC & SE China.		
perplexus, S.c.	S.c. perplexus - S Ryukyu Is.		
hoya,	S.c. hoya - Taiwan.		
S.c. rutherfordi,	S.c rutherfordi - Hainan.		
S.c. palawanensis,	S.c. palawanensis - Palawan		
S.c. pallidus, S.c.	group (Philippines).		
richmondi,	S.c pallidus - Lowlands of N		
S.c. natunensis,	Borneo.		
S.c. malayensis,	S.c. richmondi - S Borneo.		
S.c. batu, S.c.	<i>S.c. natunensis</i> - Natuna Is and		
abbotti, S.c.	Belitung I (off W & SW		
asturinus,	Borneo).		
S.c. sipora, S.c.	S.c. malayensis - Malay		
bido, S.c.	Peninsula (from S Tenasserim),		
baweanus	nearby Anambas Is and N		
	Sumatra.		
	<i>S.c. batu</i> - S Sumatra and Batu		
	Is (off W Sumatra).		
	<i>S.c. abbotti</i> - Simeulue I (off W		
	Sumatra).		
	S.c. asturinus - Nias I (off W		
	Sumatra).		
	S.c. sipora - Mentawai Is (off		
	W Sumatra).		
	S.c. bido - Java and Bali.		
	S.c. baweanus - Bawean I (off		
	N Java).		

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
	_	<u>5</u>)	Recommendation
Great Nicobar	Great Nicobar I (Nicobar Is.).	NGT. CITES II. Seen only twice	Not recommended

	T	Ι	
Serpent-eagle Spilornis klossi		during recent raptor survey, on both occasions perched inside forest. Reported by one source to be common.	
Kinabalu Serpent- eagle Spilornis kinabaluensis	Mountains of N Borneo, recorded on Mt Mulu (NE Sarawak), MT Murud (NE Kalimantan) and MT Kinabalu (W Sabah).	Rare. CITES II. Status very poorly known. May be threatened in long-term by clear-felling of forests.	Not recommended
Sulawesi Serpent- eagle Spilornis rufipectus 2 subspecies S.r. rufipectus, S.r. sulaensis	S.r. rufipectus - Sulawesi, and islands of Salayar, Muna and Buntung, off S Sulawesi. S.r. sulaensis - Banggai and Sula Is, off E Sulawesi.	NGT. CITES II.	Not recommended
Philippine Serpent- eagle Spilornis holospilus	N & E Philippine Is, from Luzon S to Mindanao.	NGT. CITES II.	Not recommended
Andaman Serpent- eagle Spilornis elgini	Andaman Is.	Rare. CITES II. Common, sometimes reaching surprisingly high densities; most numerous raptor on Andaman Is. Probably should not be classed as threatened, but rapidly growing human population may encroach on forest habitat in future.	Not recommended
Congo Serpent- eagle Dryotriorchis spectabilis 2 subspecies D.s. spectabilis, D.s. batesi	D.s. spectabilis - Sierra Leone E to S Nigeria and NW Cameroon. D.s. batesi - S Cameroon E to W Uganda and S to Gabon and SC Zaire; N Angola.	NGT. CITES II.	Not recommended
Madagascar Serpent-eagle Eutriorchis astur	Madagascar, originally along all moist eastern regions, but now confined to NE.	Endangered. CITES II.	Not recommended
Western Marsh- harrier Circus aeruginosus 2 subspecies C.a. aeruginosus, C.a. harterti	C.a. aeruginosis - Europe and Asia Minor E into C Asia, E to upper R Yenisey and Mongolia; winters in W & S Europe, Africa S of Sahara, and in Indian Subcontinent and Sri Lanka. C.a. harterti - NW Africa, from Morocco to Tunisia.	NGT. CITES II. Population trends have varied in Europe throughout 20 th century, but overall decline in numbers and range.	Not recommended
African Marsh- harrier Circus ranivorus	Zaire, Uganda and Kenya S to South Africa; ranges NE to Ethiopia and Somalia.	NGT. CITES II. Common on major wetlands of E and S Africa, especially in Botswana, Zambia and Uganda.	Not recommended
Eastern Marshharrier Circus spilonotus 2 subspecies C.s. spilonotus, C.s. spilothorax	C.s. spilonotus - SE Siberia and Mongolia to Ussuriland, Sakhalin, NE China and N Japan; winters from S Japan and SE Asia and S China to Indonesia and Philippines.	NGT. CITES II. Very little information available about population sizes and trends. Generally rare and patchily distributed in former USSR; uncommon breeder in N Japan.	Not recommended

	C.s. spilothorax - C & E New Guinea.		
Pacific Marsh- harrier	S New Guinea (breeding uncertain), Melanesia,	NGT. CITES II. Common in suitable habitat, but local declines	Not recommended
Circus	Australia, New Zealand and	where wetlands drained. Nests	
approximans	Polynesia E to Tonga.	vulnerable to human disturbance.	
	Introduced to Society Is.		
Madagascar	<i>C.m. maillardi -</i> Reunion I.	NGT. CITES II. Currently	Not recommended
Marsh-harrier	C.m. macrosceles - Madagascar	considered near-threatened. Widely	1vot recommended
Circus maillardi	and Comoro Is.	distributed on Madagascar, both	
2 subspecies		coastally and inland, but nowhere	
C.m. maillardi,		common and not present on all	
C.m. macrosceles		wetlands.	
Long-winged	SW Columbia to the Guianas,	NGT. CITES II. Widespread, but	Not recommended
Harrier	Trinidad and Tobago, and NE	apparently rather local. Very	
Circus buffoni	Brazil (Pará and Maranhão),	poorly known.	
	then S to E Bolivia, N & C		
	Argentina and C Chile.		

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
Scientific 1 (unic	Tunge	<u>5</u>)	Recommendation
Spotted Harrier Circus assimilis	Australia; Sulawesi and Sula Is (C Moluccas); also recorded on Sumba and Timor (Lesser Sundas), but probably migrants.	NGT. CITES II. Generally uncommon but widespread; may have benefited locally in S by creation of habitat, and increase in native and introduced prey.	Not recommended
Black Harrier Circus maurus	S South Africa, ranging N to Transvaal, Lesotho, S Namibia and S Botswana.	NGT. CITES II. Currently considered near-threatened. Widespread and locally common within restricted breeding habitat.	Not recommended
Northern (Hen) Harrier Circus cyaneus 2 subspecies C.c cyaneus, C.c. hudsonius	C.c. cyaneus - Eurpoe and N Asia E to Kamchatka; winters from Europe and NW Africa through S Asia to SE China and Japan. C.c. hudsonius - North America, S to NW Mexico and SE Virginia (USA); winters S to N South America.	NGT. CITES II. Population trends vary regionally, but generally seems to be in decline.	Phase Out
Cinereous Harrier Circus cinereus	Columbia and Ecuador (above treeline) S through Peru, Bolivia and Paraguay to extreme S Brazil, then S to Tierra del Fuego and Falkland Is.	NGT. CITES II. Overall in no danger; in S portions of range can be fairly common, in some areas second most abundant raptor after Chimango Caracara (Milvago chimango).	Not recommended
Pallid Harrier Circus macrourus	Ukraine and SW Russia E to L Balkash region, NW China. Winters mainly in Africa S of Sahara, and from Pakistan, India and Sri Lanka E to S China, and irregularly to E China.	NGT. CITES II. Drastically declining, particularly in Europe.	Not recommended
Pied Harrier Circus	S Siberia (L Baikal) and Mongolia E to Amurland,	NGT. CITES II. Relatively small range, apparently with limited	Not recommended

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and Sri Lanka to S China,		
1.1		
		Not recommended
Yenisey. Winters in Africa S of		
Sahara and Indian Subcontinent	areas, in turn caused by nestlings	
S to Sri Lanka.	dying following harvesting of	
	crops.	
<i>P.t. pectoralis</i> - Senegambia E	NGT. CITES II. One of	Not recommended
to W Sudan, N to Air	commonest birds of prey in forests	
Mountains (NW Niger) and S to	and woodlands of W and C Africa,	
Zaire.	especially where oil and Borassus	
<i>P.t. typus</i> - E Sudan to Eritrea	palms abundant.	
and S to Angola and South		
Africa.		
Madagascar.	NGT. CITES II. One of the five	Not recommended
	commonest raptors on Madagascar.	
K.m. monogrammicus -	NGT. CITES II. Vulnerable to	Not recommended
Senegambia E to Ethiopia and S	cutting of woodland and burning or	
to Uganda and Kenya.	grazing of grass cover,	
K.m. meridionalis - S Kenya S		
to N South Africa and W to		
Angola and N Namibia.		
_		
M.m. theresae - SW Morocco.	NGT. CITES II.	Not recommended
<i>M.m. neumanni</i> - Mali E to N		
Sudan.		
M.m. ignoscens - SW Arabian		
Peninsula.		
M.m. metabates - Senegambia		
E to Ethiopia and S to NE Zaire		
and N Tanzania.		
<i>M.m. mechowi</i> - Angola E to S		
Tanzania and S to N Namibia		
	S to Sri Lanka. P.t. pectoralis - Senegambia E to W Sudan, N to Air Mountains (NW Niger) and S to Zaire. P.t. typus - E Sudan to Eritrea and S to Angola and South Africa. Madagascar. K.m. monogrammicus - Senegambia E to Ethiopia and S to Uganda and Kenya. K.m. meridionalis - S Kenya S to N South Africa and W to Angola and N Namibia. M.m. theresae - SW Morocco. M.m. neumanni - Mali E to N Sudan. M.m. ignoscens - SW Arabian Peninsula. M.m. metabates - Senegambia E to Ethiopia and S to NE Zaire and N Tanzania. M.m. mechowi - Angola E to S	bred in N Burma and NE India (Assam). Winters from India and Sri Lanka to S China, Borneo and Philippines. NW Africa and S & C Europe E through Caspian lowlands to Kazakhstan and upper R Yenisey. Winters in Africa S of Sahara and Indian Subcontinent S to Sri Lanka. P.t. pectoralis - Senegambia E to W Sudan, N to Air Mountains (NW Niger) and S to Zaire. P.t. typus - E Sudan to Eritrea and S to Angola and South Africa. Madagascar. NGT. CITES II. One of commonest birds of prey in forests and woodlands of W and C Africa, especially where oil and Borassus palms abundant. NGT. CITES II. One of commonest birds of prey in forests and woodlands of W and C Africa, especially where oil and Borassus palms abundant. NGT. CITES II. One of the five commonest raptors on Madagascar. NGT. CITES II. One of the five commonest raptors on Madagascar. NGT. CITES II. One of the five commonest raptors on Madagascar. NGT. CITES II. One of the five commonest raptors on Madagascar. NGT. CITES II. One of the five commonest raptors on Madagascar. NGT. CITES II. One of the five commonest raptors on Madagascar. NGT. CITES II. Vulnerable to cutting of woodland and burning or grazing of grass cover, NGT. CITES II. Vulnerable to cutting of woodland and burning or grazing of grass cover, NGT. CITES II. Vulnerable to cutting of woodland and burning or grazing of grass cover, NGT. CITES II. Vulnerable to cutting of woodland and burning or grazing of grass cover, NGT. CITES II. Vulnerable to cutting of woodland and burning or grazing of grass cover, NGT. CITES II. Vulnerable to cutting of woodland and burning or grazing of grass cover,

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Eastern Chanting- goshawk	SE Ethiopia and Somalia S to E Uganda and N Tanzania	NGT. CITES II.	Not recommended
Melierax poliopterus	Oganua anu iv Tanzama		
Pale Chanting- goshawk Melierax canorus 2 subspecies M.c. argentior, M.c. canorus	M.c. argentior - S Angola S and E through Namibia, Botswana and Zimbabwe to NE South Africa and Transvaal and NW Orange Free State. M.c. canorus - S South Africa, in Cape Province, SE Orange Free State and (formerly) S	NGT. CITES II.	Not recommended

	Natal.		
Gabar Goshawk Micronisus gabar 2 subspecies M.g. aequatorius, M.g. gabar	M.g. aequatorius - Ethiopian highlands S to Zaire, Zambia and N Mozambique. M.g. gabar - S Angola, Zambia and Mozambique S to South Africa.	NGT. CITES II.	Not recommended
Grey-bellied Goshawk Accipiter poliogaster	E of Andes from Colombia and NE Ecuador, S Venezuela and the Guianas S through Brazil (except NE), E Peru, Bolivia and Paraguay to N Argentina (Misiones.	NGT. CITES II. Currently considered near-threatened. Very little information available. Generally seems to be rare, but wide distribution suggests no immediate overall threat.	Not recommended
Crested Goshawk Accipiter trivirgatus 11 subspecies A.t. layardi, A.t. peninsulae, A.t. indicus, A.t. formosae, A.t. trivigatus, A.t. niasensis, A.t. javanicus, A.t. microstictus, A.t. palawanus, A.t. extimus. A.t. castroi	A.t. layardi - Sri Lanka. A.t. peninsulae - SW India. A.t. indicus - NC, NE & E India and Nepal to S China, including Hainan, and S to Indochina and Malay Peninsula. A.t. formosae - Taiwan. A.t. trivigatus - Sumatra. A.t. niasensis - Nias I (off W Sumatra). A.t. javanicus - Java; recently recorded on Bali. A.t. microstictus - Borneo. A.t. palawanus - Palawan, Calamianes (SW Philippines); may also be race of Natuna Is (off W Borneo). A.t. extimus - SE Philippines. A.t. castroi - Polillo Is, off E Luzon (N Philippines).	NGT. CITES II. Apparently uncommon to fairly common throughout extensive range; possibly commoner than thought simply not detected because of unobtrusive habits and preference for forest interiors.	Not recommended
Sulawesi Goshawk Accipiter griseiceps	Sulawesi and off-lying Togian Is, Muna and Butung.	NGT. CITES II. Generally reckoned to be uncommmon, e.g. in Dumoga-Bone National Park (N Sulawesi); may actually be commoner than thought but infrequently observed due to unobtrusive behaviour.	Not recommended
Red-chested Goshawk Accipiter toussenelii 4 subspecies A.t. macroscelides, A.t. toussenelii, A.t. canescens, A.t. lopezi	A.t. macroscelides - Senegambia to W Cameroon in rain forest. A.t. toussenelii - S Cameroon to Gabon, in lower Zaire River basin. A.t. canescens - Upper Zaire River basin. A.t. lopezi - Bioko I (Fernando Po).	NGT. CITES II.	Not recommended

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
African Goshawk	A.t. undulventer - Ethiopian	NGT. CITES II.	Recommendation Not recommended
Accipiter tachiro	highlands.	NGT. CITES II.	1 vot recommended
5 subspecies	A.t. croizati - SW Ethiopia.		
A.t. unduliventer, A.t. croizati,	A.t. sparsimfasciatus - Somalia, through E Africa,		
A.t.	Zanzibar and SE Zaire to N		
sparsimfasciatus,	Angola, N Zambia, N Malawi		
A.t. pembaensis, A.t. tachiro,	and N Mozambique. <i>A.t. pembaensis -</i> Pemba I		
71.1. 1401110,	(Tanzania).		
	A.t. tachiro - S Angola, S		
	Zambia, S Malawi and S Moazmbique S to South Africa.		
Chestnut-flanked	Nigeria E to Zaire River basis.	NGT. CITES II. Secretive, but	Not recommended
Sparrowhawk	Purported presence in Upper	thought to be common in larger	
Accipiter castanilius	Guinea forests W of Nigeria requires confirmation.	tracts of pristine forest, of which considerable areas remain.	
Castantitus	requires commination.	Vulnerable to deforestation,	
		although will enter clearings to	
		hunt; numbers may be much	
Shikra	<i>A.b. cenchroides</i> - Azerbaijan E	reduced in parts of range. NGT. CITES II.	Not recommended
Accipiter badius	to Kazakhstan and Iran E to	1,61,612611	110010000000000000000000000000000000000
6 subspecies	NW India, migrating further S		
A.b. cenchroides, A.b. dussumieri,	in winter. A.b. dussumieri - C India and		
A.b. badius, A.b.	Bangladesh.		
poliopsis,	A.b. badius - SW India and Sri		
A.b. sphenurus, A.b. polyzonoides	Lanka. A.b. poliopsis - NE India E to S		
A.b. polyzonolues	China, S to Thailand and		
	Vietnam.		
	A.b. sphenurus - Senegambia E to SW Arabia, S to N Zaire and		
	N Tanzania.		
	A.b. polyzonoides - S Zaire and		
Nicobar	S Tanzania to N South Africa.	NGT CITES II. Variously	Not recommended
Sparrowhawk	A.b. butleri - Car Nicobar I (N Nicobar Is).	NGT. CITES II. Variously reported as not uncommon and	Not recommended
Accipiter butleri	A.b. obsoletus - Katchall I and	fairly common, but not	
2 subspecies	possibly Camorta I (C Nicobar	encountered during recent raptor	
A.b. butleri, A.b. obsoletus	Is).	surveys on Car Nicobar.	
Levant	SE Europe, SW Ukraine and S	NGT. CITES II. Size and trends of	Not recommended
Sparrowhawk	Russia E to W Kazakhstan;	populations insufficiently known,	
Accipiter brevipes	more locally in Turkey, Caucasus and Iran. Thought to	but species less rare than was thought before 1980's.	
	winter mainly in E Sahel zone		
	of sub-Saharan Africa.	NOT OWNER II	NI.
Chinese Goshawk Accipiter soloensis	S Ussuriland and Korea; C & E China and Taiwan. Winters	NGT. CITES II.	Not recommended
11001pilot solvensis	from extreme SE China and		
	Hainan, S through Indochina,		
	Philippines and Indonesia to W		

	New Guinea and occasionally W Micronesia.		
Frances's Sparrowhawk Accipiter francesii 4 subspecies A.f. francesii, A.f. griveaudi, A.f. pusillus, A.f. brutus	A.f. francesii - Madagascar. A.f. griveaudi - Ngadzidja (Grand Comoro), Comoro Is. A.f. pusillus - Ndzuani (Anjouan), Comoro Is. A.f. brutus - Maore (Mayotte), Comoro Is.	NGT. CITES II. The commonest Accipiter on Madagascar, but uncommon in the arid S.	Not recommended
Spot-tailed Goshawk Accipiter trinotatus	Sulawesi and off-lying islands of Talisei, Muna and Butung.	NGT. CITES II.	Not recommended

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
Scientific i value	Kunge	5)	Recommendation
Variable Goshawk	A.n. sylvestris - Lesser Sundas.	NGT. CITES II. Uncommon in S	Not recommended
Accipiter	A.n. polionotis - Banda I	and NW Australia, but generally	
novaehollandiae	(Moluccas), Tanimbar Is.	common in tropics.	
23 subspecies	A.n. albiventris - Tayandu I		
A.n. sylvestris, A.n.	(Moluccas), Kai Is.		
polionotus,	A.n. obiensis - Obi (C		
A.n. albiventris,	Moluccas).		
A.n. Obiensis,	A.n. griseogularis - N		
A.n. griseogularis,	Moluccas.		
A.n. mortyi,	A.n. mortyi - Morotai (N		
A.n. hiogaster, A.n.	Moluccas).		
pallidiceps,	A.n. hiogaster - S Moluccas.		
A.n. leucosomus,	A.n. pallidiceps - Buru (S		
A.n. pallidimas,	Moluccas).		
A.n. manusi, A.n.	A.n. leucosomus - New Guinea.		
bougainvillei,	A.n. pallidimas -		
A.n.	D'Entrecasteaux Is (New		
rufoschistaceus,	Guinea).		
A.n. rubianae,	A.n. manusi - Admiralty Is.		
A.n. pulchellus,	A.n. bougainvillei -		
A.n. malaitae,	Bougainville (N Solomons).		
A.n. misulae, A.n.	A.n. rufoschistaceus -		
misoriensis,	Choiseul, Santa Isabel, Florida		
A.n. dampieri, A.n.	Is (C Solomon Is).		
lavongai,	A.n. rubianae - C Solomon Is.		
A.n. lihirensis, A.n.	A.n. pulchellus - Guadalcanal		
matthiae,	(SW Solomon Is).		
A.n.	A.n. malaitae - Malaita (SE		
novaehollandiae	Solomon Is).		
	<i>A.n. misulae</i> - Louisiade Is		
	(New Guinea).		
	A.n. misoriensis - Biak I.		
	A.n. dampieri - New Britain.		
	A.n. lavongai - New Hanover		
	and New Ireland (Bismarck		
	Archipelago).		
	A.n. lihirensis - Lihir and		
	Tanga Is.		

	4 (4) (4) (4)		
	A.n. matthiae - St Matthias I		
	(Bismarck Archipelago).		
	A.n. novaehollandia - N & E		
	Australia and Tasmania.		
Australasian	A.f. natalis - Christmas I	NGT. CITES II. Common and	Not recommended
Goshawk	(Indian Ocean).	widespread; local declines in S	
Accipiter fasciatus	A.f. tjendanae - Sumba (Lesser	Australia where habitat clearance	
11 subspecies	Sundas).	extensive, but species has benefited	
A.f. natalis, A.f.	A.f. wallacii - Lesser Sundas,	from introduction of rabbit; preys	
tjendanae, A.f.	from Lombok E to Babar.	on introduced birds.	
wallacii, A.f.	A.f. stresemanni - Islets		
stresemanni, A.f.	between Sulawesi and Lesser		
hellmayri,	Sundas.		
A.f. savu, A.f.	A.f. hellmayri - Timor, Alor,		
polycryptus, A.f.	Roti (Lesser Sundas).		
dogwa, A.f.	A.f. savu - Sawu (Lesser		
didimus, A.f.	Sundas).		
fasciatus, A.f.	A.f. polycryptus - E New		
vigilax	Guinea.		
O	A.f. dogwa - S New Guinea.		
	A.f. didimus - N Australia; Buru		
	(S Moluccas).		
	A.f. fasciatus - Timor (Lesser		
	Sundas); Australia and		
	Tasmania; Rennell and Bellona		
	Is (Solomons).		
	A.f. vigilax - New Caledonia,		
	Loyalty Is, Vanuatu.		
Black-mantled	A.m melanochlamys -	NGT. CITES II. Widespread in all	Not recommended
Goshawk	Vogelkop (W New Guinea).	montane areas of mainland New	
Accipiter	A.m. schistacinus - Montane C	Guinea but lives in remote, rugged	
melanochlamys	& E New Guinea.	and densely forested areas and is	
2 subspecies		seldom encountered by	
A.m.		ornithologists.	
melanochlamys,			
A.m. schistacinus			
11.m. schistachus			

Common Name Scientific Name	Range A.a. eichhorni - Feni Is	Status in Wild (from Handbook to the Birds of the World vol. 2& 5) NGT. CITES II. Appears to be	TAG Recommendation Not recommended
Accipiter albogularis 5 subspecies A.a. eichhorni, A.a. woodfordi, A.a. albogularis, A.a. gilvus, A.a. sharpei	(Bismarcks). A.a. woodfordi - N, E & S Solomons. A.a. albogularis - San Cristobal, Santa Ana (Solomons). A.a. sharpei - Santa Cruz Is.	common, at any rate in parts of range, but biology and population trends virtually unknown.	Tvot recommended
New Caledonia Sparrowhawk Accipiter haplochrous	New Caledonia.	NGT. CITES II. Restricted distribution, but widespread throughout main island.	Not recommended
Fiji Goshawk Accipiter rufitorques	Fiji Is.	NGT. CITES II.	Not recommended
Moluccan	N Moluccas, on Morotai,	NGT. CITES II. Apparently	Not recommended

Goshawk	Halmahera, Bacan and perhaps	uncommon, but unobtrusive;	
Accipiter	Tenate.	possibly commoner than thought.	
henicogrammus			
Slaty-backed	New Britain.	NGT. CITES II. Restricted	Not recommended
Goshawk		distribution and presumably low	
Accipiter		total population size. Apparently	
luteoschistaceus		scarce, and seldom seen by	
		ornighologists; biology unknown.	
Imitator	Bougainville, Choiseul and	Rare. CITES II. Restricted	Not recommended
Sparrowhawk	Santa Isabel, in N & C Solomon	distribution, and presumably low	1 vot 1000mmenaca
Accipter imitator	Is.	total population size; habitat	
		subject to deforestation in	
		lowlands. Seldom encountered by	
		ornithologists, and biology	
		unknown.	
Grey-headed	W Papuan Is and Aru Is through	NGT. CITES II.	Not recommended
Goshawk	New Guinea to Fergusson I	TVOTI CITES III	110010000000000000000000000000000000000
Accipiter	(D'Entrecasteaux Is) and		
poliocephalus	Misima I and Tagula I		
P ·······	(Louisiade Archipelago).		
New Britain	New Britain.	NGT. CITES II. Currently	Not recommended
Goshawk		considered near-threatened. Scarce,	
Accipiter princeps		and seldom encountered by	
		ornithologists; biology unknown.	
Tiny Hawk	A.s. fontanieri - Nicaragua S to	NGT. CITES II. Status very poorly	Not recommended
Accipiter	W Columbia and W Ecuador.	known, but large range and	
superciliosus	A.s. superciliosus - E of Andes,	tendency to use second growth	
2 subspecies	from Colombia E through	forest suggest species in no	
A.s. fontanieri, A.s.	Venezuela (except NW) to the	immediate danger.	
superciliosus	Guianas, and S through		
-	Ecuador, E Peru, Bolivia (Beni,		
	Santa Cruz) and Brazil to		
	Paraguay and N Argentina		
	(Misiones).		
Semi-collared	SW Venezuela (Mérida,	NGT. CITES II. Currently	Not recommended
Hawk	Táchira) S, on W & E slopes of	considered near-threatened. Very	
Accipiter collaris	Andes, through Colombia to	little known; thorough surveys	
	Ecuador; recent range extension	needed.	
	of 1500 km to S Peru.		
Red-thighed	A.e. erythropus - Senegambia	NGT. CITES II. Small size	Not recommended
Sparrowhawk	to Nigeria.	suggests may occur at high density	
Accipiter	A.e. zenkeri - Cameroon E to W	in pristine forest, large tracts of	
erythropus	Uganda and S to N Angola and	which remain in C Africa.	
2 subspecies	C Zaire.		
A.e. erythropus,			
A.e. zenkeri		NOT CITEGU	N I (1 1
African Little	S Sudan and Ethiopia S to	NGT. CITES II.	Not recommended
Sparrowhawk	South Africa and W to Angola		
Accipiter minullus	and Namibia.	NGT. CITES II. Status and trends	Not rocommondad
Japanese	A.g. sibiricus - Upper R Ob and		Not recommended
Sparrowhawk	Mongolia E to middle R Lena, E China and Taiwan;	of populations very poorly known,	
Accipiter gularis		with virtually no figures available.	
3 subspecies A.g. sibiricus, A.g.	presumably winters from Andaman and Nicobar Is E to S		
gularis, A.g.	China and Greater Sundas.		
iwasakii	A.g. gularis - Sakhalin, S Kuril		
iwasanii	Is and Japan; winters S to		
	15 and Japan, winters 5 to		

Philippines, Greater Sundas, N	
Sulawesi and Timor.	
A.g. iwasakii - S Ryukyu Is	
(Iriomote, Ishigaki).	

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Besra	A.v. affinis - N India and Nepal	NGT. CITES II. Uncommon to	Not recommended
Accipiter virgatus	E to C & S China, and	common throughout extensive	
11 subspecies	Indochina.	range. Main threat is deforestation,	
A.v. affinis, A.v.	A.v. fuscipectus - Mountains of	e.g. in much of lowland India,	
fuscipectus, A.v.	Taiwan.	Philippines and Java.	
besra, A.v.	A.v. besra - SW India and Sri		
abdulali, A.v.	Lanka, probably also SE India.		
nisoides,	A.v. abdulali - Andaman Is. and		
A.v. confusus, A.v.	possibly Nicobar Is.		
quagga,	A.v. nisoides - Burma and		
A.v. rufotibialis,	Thailand; possibly also Malay		
A.v. vanbemmeli,	Peninsula.		
A.v. virgatus, A.v.	A.v. confusus - Luzon,		
quinquefasciatus	Mindoro, Negros and		
	Catanduanes (N & E		
	Philippines).		
	A.v. quagga - Cebu, Bohol,		
	Leyte, Samar, Siquijor and		
	Mindanao (SE Philippines).		
	A.v. rufotibialis - N Borneo.		
	A.v. vanbemmeli - Sumatra.		
	A.v. virgatus - Java and Bali.		
	A.v. quinquefasciatus - Flores		
	(Lesser Sundas).		
Sulawesi Dwarf	Mountains of Sulawesi, except	Rare. CITES II. Apparently	Not recommended
Sparrowhawk	SW.	uncommon to rare, but status	
Accipiter nanus		difficult to ascertain because of	
		unobtrusive behaviour. Not known	
		to be directly threatened at present,	
		but loss of forest habitat likely to	
		have negative impact.	
Rufous-necked	A.e. erythrauchen - Mortrotai,	NGT. CITES II. Uncommon, but	Not recommended
Sparrowhawk	Halmahera, Bacan and Obi (N	unobtrusive and easily overlooked.	
Accipiter	Moluccas).	Status very poorly known; most	
erythrauchen	A.e. ceramensis - Buru, Ambon	likely threat is loss of forest	
2 subspecies	and Seram (S Moluccas).	habitat.	
A.e. erythrauchen,			
A.e. ceramensis	<u> </u>	NOTE OFFICE H. I.	37.
Collared	A.c. papuanus - New Guinea,	NGT. CITES II. Uncommon, but	Not recommended
Sparrowhawk	W Papuan Is, Aur Is.	widespread; secretive and probably	
Accipiter	A.c. rosselianus - Rossel I	under-recorded.	
cirrocephalus	(Louisiade Archipelago).		
3 subspecies	A.c. cirrocephalus - Australia,		
A.c. papuanus, A.c.	Tasmania.		
rosselianus,			
A.c. cirrocephalus	NI Duitain	Daw CITECH C	NI-4 1 1
New Britain	New Britain.	Rare. CITES II. Scarce, and seldom	Not recommended
Sparrowhawk		encountered by ornithologists;	
Accipiter	<u> </u>	population trend and biology	

brachyurus		unknown.	
Vinous-breasted	A.r. rhodogaster - Sulawesi.	NGT. CITES II. Widespread and	Not recommended
Sparrowhawk	A.r. butonensis - Muna and	apparently uncommon; perhaps	
Accipiter	Butung (off SE Sulawesi).	commoner than thought, but	
rhodogaster	A.r. sulaensis - Banggai and	overlooked because of unobtrusive	
3 subspecies	Sula Is.	habits.	
A.r. rhodogaster,			
A.r. butonensis,			
A.r. sulaensis			
Madagascar	Madagascar.	NGT. CITES II. Currently	Not recommended
Sparrowhawk		considered near-threatened. Status	
Accipiter		poorly known. Uncommon in all	
madagascariensis		areas and rare on deforested central	
		plateau.	
Ovambo	Senegambia, Sierra Leone and	NGT. CITES II.	Not recommended
Sparrowhawk	Chana E to Ethiopia and S to		
Accipiter	Angola, N Namibia, N		
ovampensis	Botswana and N South Africa.		

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
	9	5)	Recommendation
Eurasian	A.n. nisus - Europe and Asia	NGT. CITES II. Declined	Phase Out
Sparrowhawk	Minor E to W Siberia; winters S	drastically in Europe during 1950's	
Accipiter nisus	to NE Africa and Middle East.	and 1960's due to generalized use	
6 subspecies	A.n. nisosimilis - C & E Asia;	of organochlorine pesticides, which	
A.n. nisus, A.n.	winters S to India, Sri Lanka	killed adults and lowered breeding	
nisosimilis,	and Indochina.	success.	
A.n. melaschistos,	A.n. melaschistos - Himalayas		
A.n. wolterstorffi,	and mountains of C Asia.		
A.n. granti, A.n.	A.n. wolterstorffi - Corsica and		
punicus	Sardinia.		
	A.n. granti - Madeira and		
	Canary Is.		
	A.n. punicus - NW Africa, from		
	Morocco to Tunisia.		
Rufous-breasted	A.r. perspicillaris - Ethiopian	NGT. CITES II.	Not recommended
Sparrowhawk	highlands.		
Accipiter	<i>A.r. rufiventris</i> - Kenya and E		
rufiventris	Zaire S to South Africa.		
2 subspecies			
A.r. perspicillaris,			
A.r. rufiventris			
Sharp-shinned	A.s. perobscurus - Queen	NGT. CITES II. Race <i>velox</i>	Phase Out
Hawk	Charlotte Is; possibly also	affected by organochlorine	
Accipiter striatus	mainland coast of British	chemicals in 1960's and 1970's;	
7 subspecies	Columbia.	some general declines. Habitat	
A.s. perobscurus,	A.s. velox - Alaska and Canada	alteration, especially removal of	
A.s. velox, A.s.	S to California, Arizona, New	forest, continues to affect	
suttoni, A.s.	Mexico and Alabama (USA);	populations, although species	
madrensis, A.s.	winters S to Panama.	capable of adapting to urban areas.	
striatus,	A.s. suttoni - Extreme S New		
A.s. fringilloids,	Mexico (USA) S locally to		
A.s. venator	Veracruz (Mexico).		

	A.s. madrensis - Guerrero and		
	perhaps W Oaxaca (S Mexico).		
	A.s. striatus - Hispaniola, in		
	both Haiti and Dominican		
	Republic.		
	A.s. fringilloides - Cuba.		
	A.s. venator - Puerto Rico.		
White-breasted	Highlands of Central America,	NGT. CITES II. Status uncertain;	Not recommended
Hawk	from S Mexico (Chiapas,	relatively restricted range and	
Accipiter	Oaxaca) through Guatemala,	extensive deforestation within this	
chionogaster	Honduras and El Salvador to	range suggest that careful	
	NC Nicaragua.	monitoring is merited.	
Plain-breasted	Hills and mountains from N &	NGT. CITES II.	Not recommended
Hawk	SE Venezuela and Colombia		
Accipiter ventralis	through Ecuador and Peru to W		
	Bolivia (Cochambamba).		
Rufous-thighed	S Brazil (S from Mato Grosso	NGT. CITES II. In general fairly	Not recommended
Hawk	and Bahia) to Uruguay, and SE	common, but locally threatened	
Accipiter	Bolivia (Santa Cruz to Tarija)	where extensive monocultural	
erythronemius	through Chaco of Paraguay to N	agriculture removes all stands of	
	Argentina (La Rioja &	woodland; otherwise probably	
	Córdoba).	fairly adaptable and no apparent	
		grounds for conern.	
Cooper's Hawk	USA and S Canada. Winters	NGT. CITES II.	Phase Out
Accipiter cooperii	from N USA to C America,		
	regularly as far S as Honduras,		
	occasionally to Colombia.		
Gundlach's Hawk	E, W & C Cuba.	Vulnerable/Rare. CITES II. Total	Not recommended
Accipiter		numbers estimated at c. 150-200	
gundlachi		pairs, mostly in E Cuba, but with	
2 subspecies		three additional populations in W,	
A.g. gundlachi,		in provinces of Las Villas,	
A.g. wileyi		Matanzas (Zapata Swamp) and	
		Pinar.	

Common Name		Status in Wild (from <u>Handbook</u>	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Bicoloured Hawk	A.b. fidens - S Mexico, N of	NGT. CITES II. Widespread, but	Not recommended
Accipiter bicolor	Yucatán, in Oaxaca and	generally rare.	
4 subspecies	Veracruz.		
A.b. fidens, A.b.	A.b. bicolor - S Mexico		
bicolor, A.b.	(Yucatán) to Amazonia and the		
pileatus, A.b.	Guianas, S to E Bolivia, and W		
guttifer	of Andes S to NW Peru		
	(Lambayeque).		
	<i>A.b. pileatus</i> - Brazil S of		
	Amazonia (E Mato Grosso to S		
	Maranhão and Ceará) and S to		
	NE Argentina (Misiones).		
	A.b. guttifer - Brazil (W Mato		
	Grosso) and Bolivia through		
	Chaco of Paraguay to N		
	Argentina.		
Chilean Hawk	Andes of C Chile (O'Higgins)	NGT. CITES II. Status very poorly	Not recommended
Accipiter chilensis	and adjacent Argentina S to	known. Reportedly declining in	
	Tierra del Fuego and Staten I.	much of Chile, but said to be little	

	Windows NI to NIVI A negative	:	<u> </u>
	Winters N to NW Argentina	influenced by modest levels of	
71.1	(Catamarca).	forest clearing.	
Black	A.m. temminckii - Senegambia	NGT. CITES II.	Not recommended
Sparrowhawk	E to Gabon, Congo and Central		
Accipiter	African Republic.		
melanoleucus	A.m. melanoleucus - E Sudan		
2 subspecies	and N & W Ethiopia; Gabon		
A.m. temminckii,	and Zaire E to Kenya and S to		
A.m. melanoleucus	Angola and South Africa;		
	Pemba and Zanzibar.		
Henst's Goshawk	Madagascar.	NGT. CITES II. Currently	Not recommended
Accipter henstii		considered near threatened.	
Northern Goshawk	A.g. gentilis - Europe and	NGT. CITES II. Significant decline	Phase Out
Accipiter gentilis	extreme NW Africa.	in Europe during 19 th century and	1 11450 5 410
8 subspecies	A.g. arrigonii - Corsica and	20 th , mainly due to persecution and	
A.g. gentilis, A.g.	Sardinia.	deforestation.	
arrigonii,	A.g. buteoides - Extreme N	deforestation.	
_	Eurasia, from N Sweden E to R		
A.g. buteoides, A.g. albidus,	Lena; winters S to C Europe		
A.g. schvedowi,	and C Asia.		
A.g. fujiyamae,	A.g. albidus - NE Siberia to		
A.g. atricapillus,	Kamchatka.		
A.g. laingi	A.g. schvedowi - Asia, from		
	Urals to Amurland, Sakhalin		
	and Kuril Is, S to C China;		
	winters S to Himalayas and N		
	Indochina.		
	A.g. fujiyamae - Japan.		
	A.g. atricapillus - North		
	America, S to Tennessee and S		
	Arizona (USA) and Jalisco (W		
	Mexico).		
	A.g. laingi - Queen Charlotte Is		
	and Vancouver I, British		
	Columbia (W Canada).		
Meyer's Goshawk	Halmahera and Seram	NGT. CITES II. Scarce, and	Not recommended
Accipiter	(Moluccas) through N & E New	seldom encountered by	1,00 recommended
meyerianus	Guinea to New Britain and	ornithologists; biology poorly	
meyer amus	Solomon Is (on Kolombangara	known.	
	and Guadalcanal).	KIIO WII.	
Chestnut-	N & E New Guinea.	NGT. CITES II. Scarce, and	Not recommended
	in & E inew Guillea.		rvot recommended
shouldered		seldom encountered by	
Goshawk		ornithologists; biology unknown.	
Erythrotriorchis			
buergersi			
Red Goshawk	N & E Australia, from	Vulnerable. CITES II. Scarce, with	Not recommended
Erythrotriorchis	Kimberleys round to N New	specialized requirements, and	oviocamionaou
radiatus	South Wales.	locally restricted within continental	
Tadiatus	South wates.	range; declining, with contraction	
		of breeding range, in E Australia	
		through habitat loss.	

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
	g -	5)	Recommendation
Doria's Hawk Megatriorchis doriae	New Guinea; also recorded on Batanta I, off NW New Guinea.	NGT. CITES II. Scarce, and seldom encountered by ornithologists; biology unknown.	Not recommended
Long-tailed Hawk Urotriorchis macrourus	Liberia E to W Uganda and S to SW & C Zaire.	NGT. CITES II. Secretive but widely recorded from primary forest; restricted to large tracts of dense forest, althought readily occurs at edge of clearings. Much affected by deforestation, due to intolerance of secondary habitats, and has probably decreased considerably throughout much of W Africa.	Not recommended
Grasshopper Buzzard Butastur rufipennis	Senegambia E to Ethiopia, migrating S to Sierra Leone, Cameroon, NE Zaire, Kenya and N Tanzania.	NGT. CITES II.	Not recommended
White-eyed Buzzard Butastur teesa	SE Iran, Afghanistan and Pakistan through India and Nepal to Burma (S to Tenaserim).	NGT. CITES II.	Not recommended
Rufous-winged Buzzard Butastur liventer	Burma and SC China (SW Yunnan) S to Indochina and N Malay Peninsula; Java; Sulawesi. Reported occurrence in SE Borneo doubtful; old record of questionable validity from Timor.	NGT. CITES II. Throughout most of range fairly common to uncommon, but local; rare in Yunnan (SC China) and Java. Not encountered in Java during recent raptor surveys.	Not recommended
Grey-faced Buzzard Butastur indicus	NE China to Amurland and Ussuriland, Japan and Izu Is. Winters from S & SE China and Taiwan through Indochina and Malay Peninsula to Greater Sundas, Philippines, Sulawesi and islands off NW New Guinea.	NGT. CITES II. Size and trends of populations very poorly known.	Not recommended
Crane Hawk Geranospiza caerulescens 6 subspecies G.c. livens, G.c. Nigra, G.c. balzarensis, G.c. caerulescens, G.c. gracilis, G.c. flexipes	G.c. livens - NW Mexico. G.c. Nigra - N Mexico (Sinaloa and Tamaulipas) S to zone of Panama Canal. G.c. balzarensis - Panama E of canal zone on Pacific slope to W Colombia, W Ecuador and NW Peru (Lambayeque). G.c. caerulescens - E slope of Colombia and Ecuador to the Guianas and Amazonian Peru and Brazil. G.c. gracilis - NE Brazil, from Maranhão, Ceará and Piauí to C Goiás and Bahia. G.c. flexipes - S Brazil (Minas Gerais, S Goiás and Mato Grosso) and Bolivia through	NGT. CITES II. Generally not common, but extensive geograhical range and broad habitat tolerance suggest little grounds for immediate concern. In Colombia, widespread but local and rarely common.	Not recommended

Plumbeous Hawk Leucopternis	Chaco of Paraguay, to NC Argentina (S to La Rioja, Córdoba and Buenos Aires) and Uruguay. E. Panama through W Colombia and W Ecuador to extreme NW	NGT. CITES II. Currently considered near-threatened. Status	Not recommended
plumbea	Peru.	very poorly known, but in general rare to uncommon. May have been extirpated from W Panama; apparently rare in Colombia.	
Slate-coloured Hawk Leucopternis schistacea	Amazonia, from SE Colombia and SW Venezuela S through E Ecuador and E Peru to N & E Bolivia, and E to E French Guiana and CN Brazil.	NGT. CITES II. Generally fairly common. Status uncertain, but extensive range suggests there is no need for immediate concern; surveys required to assess situation more definitely. Biology very poorly known.	Not recommended
Barred Hawk Leucopternis princeps	Costa Rica and Panama, and locally into W Colombia and N Ecuador on both sides of the Andes.	NGT. CITES II. Too little known to permit accurate assessment of status, but propensity to use forest edge suggests it is not a species of imminent concern.	Not recommended

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Black-faced Hawk	The Guianas and Amazonia N	NGT. CITES II. Status very poorly	Not recommended
Leucopternis	of Amazon R to E Colombia	known. Apparently rare	
melanops	and E Ecuador. Specimens from	throughout, but very secretive and	
	R Tapajós (S of Amazon) may	often overlooked; most of forest in	
	refer to L. kuhli.	extensive range persists, so	
		probably not a species of	
		immediate concern.	
White-browed	E Peru (C Loreto S to Madre de	NGT. CITES II. Very poorly	Not recommended
Hawk	Dios), N Bolivia (Pando) and	known, but so much forest in its	
Leucopternis kuhli	Amazonian Brazil S of R	extensive range remains intact that	
	Amazon (from R Madeira E to	species can not be considered of	
	E Pará).	immediate concern. Surveys and research required.	
White-necked	E Brazil, from Alagoas and S	Vulnerable/Rare. CITES II.	Not recommended
Hawk	Bahia to Sáo Paulo and Santa	Although reported in a number of	
Leucopternis	Catarina.	protected reserves, species should	
lacernulata		be considered vulnerable owing to	
		low population densities,	
		significant distances between	
		protected areas, and massive	
		deforestation of habitat outside	
		protected areas. Surveys and	
		research required.	
Semiplumbeous	Honduras S to W Colombia (E	NGT. CITES II. Currently	Not recommended
Hawk	to Magdalena Valley) and NW	considered near-threatened.	
Leucopternis	Ecuador (Esmeraldas).	Perhaps of little concern at present,	
semiplumbea		as is the commonest hawk in some	
		areas of primary forest, and is	
White Heads	I a abiachusaldi C Maria	tolerant of second growth.	Not management 1 - 1
White Hawk	<i>L.a. ghiesbreghti</i> - S Mexico	NGT. CITES II.	Not recommended

Leucopternis albicollis 4 subspecies L.a. ghiesbreghti, L.a. costaricensis, L.a. williaminae, L.a. albicollis	(Oaxaca and Veracruz) to Guatemala and Belize. L.a. costaricensis - Honduras to Panama and W Colombia. L.a. williaminae - NW Colombia (upper Sinú and lower Magdalena Valleys S to Valle) and extreme NW Venezuela (Perijá). L.a. albicollis - E Colombia, NW Venezuela (NW Zulia), Trinidad and the Guianas through Amazonia to E Peru, E Ecuador, N & E Bolivia (La Paz, Santa Cruz) and C & E Brazil (C Mato Grosso and N Maranhão).		
Grey-backed Hawk Leucopternis occidentalis	W ecuador and adjacent NW Peru. Single record from E Andean slope now questioned by its authors.	Endangered. CITES II. Massive deforestation affecting 90% of former range has reduced the population to only a few areas; . Some birds persist in very disturbed, fragmented forest mosaics in Ecuador.	Not recommended
Mantled Hawk Leucopternis polionota	E Brazil (Alagoas and Bahia) S to E Uruguay and E Paraguay (Alto Paraná). Purported Argentinian distribution (in Misiones) apparently based on supposition, with no confirmed records or data.	NGT. CITES II. Currently considered near-threatened. Status poorly known: rare or locally distributed; with massive deforestation going on throughout range	Not recommended
Rufous Crab-hawk Buteogallus aequinoctialis	Orinoco Delta in E Venezuela along coast to Paraná, S Brazil.	NGT. CITES II. Status of no immediate concern, but restricted habitat makes it highly susceptible locally to any form of deterioration or loss of this habitat.	Not recommended

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u></u>	Recommendation
Common Black	B.a. anthracinus - SW & S	NGT. CITES II.	Not recommended
Hawk	USA (S Utah and Arizona to		
Buteogallus	Texas) through Central America		
anthracinus	to Panama and N Colombia,		
3 subspecies	then along Caribbean coast to		
B.a. anthracinus,	NW Guyana, Trinidad and St		
B.a. gundlachii,	Vincent (Lesser Antilles);		
B.a. utilensis	penetrates inland to Huila,		
	Colombia.		
	B.a. gundlachii - Cuba and I of		
	Pines.		
	B.a. utilensis - Cancún I and		
	Cozumel I, off Yucatán; Utila I		
	and Guanaja I, in Gulf of		
	Honduras; and perhaps other		
	adjacent islands.		

Mangrove Black	B.s. rhizophorae - Pacific coast	NGT. CITES II. Status poorly	Not recommended
Hawk	of El Salvador and Honduras;	documented, partly due to	
Buteogallus	probably from extreme SW	taxonomic confusion. In places is	
subtilis	Mexico (Chiapas) locally to	fairly common, but few records for	
3 subspecies	Nicaragua.	Colombia; common in Pearl Is, off	
B.s. rhizophorae,	B.s. bangsi - Pacific coast of	Panama.	
B.s. bangsi,	Costa Rica and Panama,		
B.s. subtilis	including Pearl Is.		
	B.s. subtilis - Pacific coast of		
	Colombia (and offshore		
	islands), Ecuador and adjacent		
	extreme N Peru (Tumbes).		
Great Black Hawk	B.u. ridgwayi - Mexico (C	NGT. CITES II.	Not recommended
Buteogallus	Sonora and S Tamaulipas) S to		
urubitinga	W Panama.		
2 subspecies	B.u. urubitinga - E Panama, W		
B.u. ridgwayi, B.u.	of Andes S to W Ecuador, and		
urubitinga	E of Andes E to the Guianas,		
uruouinga	Trinidad and Tobago, and S		
	through E Bolivia and Brazil to		
	Paraguay, Uruguay and N		
	Argentina (Tucumán, Santiago		
	del Estero, Santa Fe).		
Savanna Hawk	W Panama (Chiriquí) through	NGT. CITES II.	Not recommended
Buteogallus	tropical South America W of	NOT. CITES II.	140t recommended
meridionalis	Andes to NW Peru, and E of		
meriaionaiis	Andes E to the Guianas and		
	Trinidad, and S through		
	Ecuador, E Peru, E Bolivia and		
	Brazil to N Argentina		
	(Tucumán, Córdoba and Santa		
	Fe).		
Harris' Hawk	P.u. harrisi - SW USA (S	NGT. CITES II.	Phsase Out
Parabuteo	California to Texas) through	NGT. CITES II.	1 lisase Out
unicinctus	Mexico and Central America		
2 subspecies	(except Belize and Honduras) to		
P.u. harrisi, P.u.	drier Pacific slope regions of W		
unicinctus	Colombia, Ecuador and Peru.		
unicincius			
	P.u. unicinctus - NE Colombia		
	and W Venezuela S through E Bolivia and C & NE Brazil		
	(Maranhão and Ceará) to S		
	Argentina (Río Negro) and SC		
Black-collared	Chile (Aisén). B.n. nigricollis - C Mexico	NCT CITES II Amazantle	Not recommended
		NGT. CITES II. Apparently	ivot recommended
Hawk Busarellus	(Sinaloa and Veracruz) S	declining in Panama, due to drainage of wetlands; same may	
	through Central America to	well be true elsewhere.	
nigricollis	Amazonia, W to E Ecuador and	wen be true eisewhere.	
2 subspecies	E Peru, E to the Guianas and		
B.n. nigricollis,	Trinidad, and S through E		
B.n. leucocephalus	Bolivia to S Brazil.		
	B.n. leucocephalus - Paraguay,		
	Uruguay and N Argentina (S to		
	Salta, Santa Fe and Corrientes).		

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
Scientific (vame	Runge	5)	Recommendation
Black-chested Buzzard-eagle Geranoaetus melanoleucus 2 subspecies G.m. australis, G.m. melanoleucus	G.m. australis - NW Venezuela (Mérida Andes) through W South America S to Tierra del Fuego. G.m. melanoleucus - S & E Brazil (Alagoas, Rio de Janiero and São Paulo) to Paraguay, E	NGT. CITES II. Declines reported in S Argentina, in areas where strychnine used by sheep ranchers.	Not recommended
	Argentina (N of Buenos Aires) and Uruguay.	NCT CITES II Consul	Not an annual of
Black Solitary Eagle Harpyhaliaetus solitarius 2 subspecies H.s. sheffleri, H.s. solitarius	H.s. sheffleri - Locally in highlands from W Mexico (Sonoroa) to Panama. H.s. solitarius - Locally from Colombia (Santa Marta Mts) E to N Venezuela and S through humid Andes to NW Argentina; also occurs in the Guianas	NGT. CITES II. Currently considered near-threatened. Status very poorly known; apparently rare throughout its broad latitudinal range.	Not recommended
Crowned Solitary Eagle Harpyhaliaetus coronatus	E Bolivia (Santa Cruz), W Paraguay and S Brazil (S from Mato Grosso and Goiás) to S Argentina (Mendoza and Río Negro); no definitive records from Uruguay, where probably occurs.	Vulnerable. CITIES II. Very poorly known. Occurs over large area, but at very low densities. Little hard evidence available on populations and trends.	Not recommended
Grey Hawk Buteo nitidus 4 subspecies B.n. plagiatus, B.n. costaricensis, B.n. nitidus, B.n. pallidus	B.n. plagiatus - SW USA (Texas to New Mexico) to NW Costa Rica. B.n. costaricensis - SW Costa Rica to N Colombia and W Ecuador. B.n. nitidus - E Colombia and E Ecuador, E to Venezuela and the Guianas, and S through Amazonian Brazil to N Maranhão. B.n. pallidus - SC Brazil (Piauí to Rio de Janeiro and Mato Grosso) and E Bolivia, S to Paraguay and NC Argentina (Tucumán and Chaco). B.L. alagans - S. Oragon (NW)	NGT. CITES II. May have	Phase Out
Red-shouldered Hawk Buteo lineatus 5 subspecies B.l. elegans, Bl.l. lineatus, B.l. texanus, B.l. alleni, B.l. extimus	B.l. elegans - S Oregon (NW USA) to N Baja California (Mexico). B.l. lineatus - E North America, from S Canada to C USA. B.l. texanus - S Texas (USA) to Veracruz (CE Mexico). B.l. alleni - SC Texas to South Carolina and N Florida. B.l. extimus - Florida and Florida Keys.	NGT. CITES II. May have undergone slight overall decline since 1946; thought to be result of alterations and loss of habitat; Christmas Bird Counts show winter populations have declined, except in California.	Phase Out
Ridgway's Hawk Buteo ridgwayi	Hispaniola and several adjacent islets.	Indeterminate. CITES II. Conflicting evidence; situation might be urgent. Locally common,	Not recommended

		yet rare over its entire range, which itself is limited to a few islands. Formerly widespread, but shooting and extensive deforestation must have taken substantial toll on population.	
Broad-winged	<i>B.p. platypterus</i> - C & S	NGT. CITES II.	Phase Out
Hawk	Canada to S USA; winters S to		
Buteo platypterus	Brazil.		
6 subspecies	B.p. cubanensis - Cuba.		
B.p. platypterus,	B.p. brunnescens - Puerto Rico.		
B.p. cubanensis,	B.p. insulicola - Antigua		
B.p. brunnescens,	(Lesser Antilles).		
B.p. insulicola,	B.p. rivierei - Dominica,		
B.p. rivierei, B.p.	Martinique and St. Lucia		
antillarum	(Lesser Antilles).		
	B.p. antillarum - St Vincent		
	and Grenada to Tobago.		

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& <u>5</u>)	TAG Recommendation
White-rumped Hawk Buteo leucorrhous	Apparently disjunct distribution: mountains of Venezuela and Colombia through Ecuador and Peru to NW Bolivia (Cochabamba, La Paz); Paraguay, S Brazil (N to Minas Gerais) and N Argentina (Salta, Tucumán, Chaco and Misiones).	NGT. CITES II. Very little known, and status uncertain	Not recommended
Short-tailed Hawk Buteo brachyurus 2 subspecies B.b fuliginosus, B.b. brachyurus	B.b. fuliginosus - S Florida (USA); E Mexico to Panama. B.b. brachyurus - Colombia S to W Ecuador, E to the Guianas and Brazil, and S through E Peru and E Bolivia (La Paz and Cochabamba) to Paraguay and N Artentina (Jujuy, Tucumán, Misiones).	NGT. CITES II. Nowhere common, e.g. uncommon and thinly spread over Colombia; uncommon to rare in Florida (USA). Occurs over very large range, and is tolerant of disturbed habitat; situation apparently secure.	Not recommended
White-throated Hawk Buteo albigula	Andes, from Venezuela and Colombia S to C Chile and WC Argentina.	NGT. CITES II. Very poorly known. Generally rare and local throughout range, e.g. in Colombia. Preferred altitudinal range relatively less affected by human activities, especially transformation; also shows tolerance of disturbed habitat. Surveys and research required.	Not recommended
Swainson's Hawk Buteo swainsoni	W & C North America from Alaska SE to Minnesota, and S to N Mexico. Winters mostly in South America, especailly in N Argentina, S Brazil and Paraguay; also some birds in S & W USA.	NGT. CITES II.	Phase Out

White-tailed Hawk Buteo albicaudatus	B.a. hypospodius - SC USA (S Texas) and NW Mexico	NGT. CITES II.	Phase Out
3 subspecies	(Sonora) to N Colombia and		
B.a. hypospodius,	NW Venezuela.		
B.a. colonus,	B.a. colonus - E Colombia E to		
B.a. albicaudatus	Surinam (exept NW		
	Venezuela), and S to Amazon,		
	E from at least Manaus to		
	Atlantic coast; Aruba, Curaçao,		
	Bonaire and Trinidad.		
	B.a. albicaudatus - Extreme SE		
	Peru and S Brazil (S from Mato		
	Grosso, Goiás and Bahia)		
	through N & E Bolivia,		
	Paraguay and Uruguay to N &		
	C Argentina (S to Río Negro).		
Galapagos Hawk	Galapagos Is.	Rare. CITES II Formerly on all	Not recommended
Buteo		large islands, and many of smaller	
galapagoensis		islands, but range now greatly	
		reduced and may now have been	
		extirpated from five islands. Seems secure on Santiago and Santa Fe.	
		Might be a species readily	
		responsive to manipulative	
		intervention, should populations	
		reach dangerously low levels.	
Red-backed Hawk	B.p. polyosoma - C Andes of	NGT. CITES II. Status poorly	Phae Out
Buteo polyosoma	Colombia S through Andes to	known, but in general appears to be	
2 subspecies	Patagonia and Tierra del Fuego;	relatively secure, and locally	
B.p. polyosoma,	also Falkland Is.	common, e.g. EC Ecuador.	
B.p. exsul	B.p. exsul - Alejandro Selkirk I	Apparently declining in Chile.	
	(Más Afuera) in Juan Fernández		
	Is, off SC Chile.		
Puna Hawk	Andes from S Colombia (C	NGT. CITES II.	Not recommended
Buteo	Andes and Cauca) S to N Chile		
poecilochrous	and NW Argentina.		

Common Name	D.	Status in Wild (from Handbook	T. C.
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Zone-tailed Hawk	Range disjunct or incompletely	NGT. CITES II.	Not recommended
Buteo albonotatus	known: NW & NC Mexico		
	(from Baja California) and		
	adjacent USA, S through		
	Yucatán (not recorded in		
	Belize) and Guatemala		
	(including W highlands) to		
	Panama, including Pearl Is. In		
	South America, distribution		
	incompletely encircles Amazon		
	Basin: W Ecuador; C Peru, near		
	Lima; N Colombia (Sta Marta		
	Mts to Magdalena) E through N		
	& SE Venezuela to the Guianas		
	and Trinidad; N, E & SE Brazil		
	(from Amazon Delta and I de		
	Marajó, S and E through Ceará,		

Γ			
	Pernambuco, Alagoas and		
	Bahia to Paraná) W through		
	Paraguay to N & E Bolivia		
Harrisian Harri	(Beni, Santa Cruz).	Dane CITEC II Comment 1 15 to 1	Dlaga Out
Hawai'ian Hawk Buteo solitarius	Endemic to Hawaiian Is; known	Rare. CITES II. Currently listed as	Phase Out
Buteo sottarius	to breed only on Hawaii I, but	endangered by government of	
	vagrants seen on at least three other islands of archipelago.	USA, but recently (1993) proposed for down-listing to threatened.	
	other islands of archipelago.	Total population thought to be	
		fairly stable and roughly estimated	
		at 2700 birds, but figure principally	
		from extrapolations of home range	
		sizes of radio-tagged birds. Lack of	
		accurate information on historical	
		and current numbers makes	
		assessment of population trends	
		impossible.	
Red-tailed Hawk	B.j. alascensis - SE Alaska	NGT. CITES II.	Monitored
Buteo jamaicensis	(USA) and coastal British		Program
14 subspecies	Columbia (W Canada).		
B.j. alascensis, B.j.	B.j. harlani - Interior of Alaska,		
harlani, B.j.	SW Yukon and N British		
calurus, B.j.	Columbia.		
borealis, B.j. kriderii, B.j.	B.j. calurus - W North America W of Great Plains.		
fuertesi, B.j.	B.j. borealis - N America E of		
hadropus, B.j.	Great Plains of C USA and		
kemsiesi,	Canada.		
B.j. costaricensis,	B.j. kriderii - Plains of SC		
B.j. fumosus,	Canada S to Wyoming (NC		
B.j. socorroensis,	USA).		
B.j. umbrinus,	B.j. fuertesi - Texas (S USA) to		
B.j. solitudinis, B.j.	N Mexico.		
jamaicensis	B.j. hadropus - Highlands of C		
	Mexico.		
	B.j. kemsiesi - Chiapas (S		
	Mexico) to N Nicaragua.		
	B.j. costaricensis - Costa Rica.		
	B.j. fumosus - Tres Marias Is, off WC Mexico.		
	B.j. socorroensis - Socorro I		
	(Revillagigedo Is), off W		
	Mexico.		
	B.j. umbinus - Florida (SE		
	USA).		
	B.j. solitudinis - Bahamas and		
	Cuba.		
	B.j. jamaicensis - Jamaica,		
	Puerto Rico and Hispaniola E to		
	N Lesser Antilles.		
Rufous-tailed	From SC Chile (Nuble) and SC	NGT. CITES II. Until recently red-	Not recommended
Hawk	Argentina (Río Negro) S	listed in category Insufficiently	
Buteo ventralis	through Patagonia to Straits of	Known, but currently considered	
	Magellan.	near-threatened. Apparently rare	
		throughout range; status remains	
		poorly known, but species does not appear to be in immediate danger.	
		appear to be in ininieurate danger.	

Common Name	D.	Status in Wild (from Handbook	T. C
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
Eurosian Duzzard	Ph hutas Europa E to		
Eurasian Buzzard Buteo buteo 11 subspecies B.b. buteo, B.b. arrigonii, B.b. rothschildi, B.b. insularum, B.b. bannermani, B.b. vulpinus, B.b. japonicus, B.b. refectus, B.b. toyoshimai, B.b. oshiroi,	B.b. buteo - Europe E to Finland, Romania and Turkey; also Madeira; winters in S of range, and irregularly S to Liberia. B.b. arrigonii - Corsica and Sardinia. B.b. rothschildi - Azores. B.b. insularum - Canary Is. B.b. bannermani - Cape Verde Is. B.b. vulpinus - N Scandinavia and European Russia E to R Yenisey, and S to N Caucasus and C Asia (Altai, Tien Shan); winters mainly in Africa S of Sahara, and also in S Asia. B.b. menetriesi - S Crimea and Caucasus S to E Turkey and N Iran. B.b. japonicus - L Baikal area and Mongolia E through Amurland and Manchuria to Sakhalin, Japan and Kuril Is, and S to Tibet, and possibly NW India; winters in S Asia, from India to Japan. B.b. refectus - W China and perhaps Himalayas.	NGT. CITES II.	Recommended Not recommended
	B.b. toyoshimai - Izu Is and Bonin Is. B.b. oshiroi - Daito Is (to E of C Ryukyu Is).		
Mountain Buzzard Buteo oreophilus 2 subspecies B.o. oreophilus, B.o. trizonatus	B.o. oreophilus - Highlands of Ethiopia S to Tanzania and Malawi.B.o. trizonatus - S & E South Africa.	NGT. CITES II. Vulnerable due to limited and patchy distribution of habitat, especially to forest cutting.	Not recommended
Madagascar Buzzard Buteo brachypterus	Madagascar.	NGT. CITES II. Only uncommon on deforested central plateau.	Not recommended
Long-legged Buzzard Buteo rufinus 2 subspecies B.r. rufinus, B.r. cirtensis	B.r. rufinus - SE Europe and Asia Minor E through Iran and Afghanistan to NW Mongolia and S to NW India (Garhwal); winters to NE Africa and N India. B.r. cirtensis - N Africa, from Mauritania to Egypt; Arabia.	NGT. CITES II. Population sizes and trends little known.	Not recommended
Upland Buzzard Buteo hemilasius	S Siberia and Mongolia E to Manchuria, and S to C China and SE Tibet. Winters in N	NGT. CITES II. Status very poorly known; apparently infrequent or rare throughout most of breeding	Not recommended

	India (Kashmir to Sikkim), E	range and in winter quarters,	
	China and Korea.	although locally abundant, e.g. in	
		Tebet. Generally rare, but locally	
		common in extreme S Siberia and	
		Mongolia. Possibly subject to	
		fluctuations related to abundance of	
		rodents.	
Ferruginous Hawk	S Canada from S Alberta to SW	NGT. CITES II. Local losses and	Phase Out
Buteo regalis	Manitoba, S through WC USA	apparent reduction of entire	
	to N Texas; winters S to N	population have led to calls for	
	Mexico.	listing as threatened species; not	
		listed because of insufficient	
		supporting data.	

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Rough-legged Buzzard Buteo lagopus 4 subspecies B.l. lagopus, B.l. menzbieri, B.l. kamtschatkensis, B.l. sanctijohannis	B.l. lagopus - N Eurasia, from Scandinavia E to area of R Ob and R Yenisey; winters mainly in C Europe and C Asia. B.l. menzbieri - NE Asia E of R Ob and R Yenisey; winters S to C Asia, N China and Japan. B.l. kamtschatkensis - Kamchatka; presumably winters in EC Asia. B.l. sanctijohannis - Alaska and N Canada; winters S to C & S USA.	NGT. CITES II.	Phase Out
Red-necked Buzzard Buteo auguralis	Sierra Leone E to Uganda and Ethiopia, and S to N Angola; outside breeding season, occurs in Sahel zone.	NGT. CITES II. Vulnerable to degradation of woodland but uses many secondary habitats and probably benefits from cutting of rain forest.	Not recommended
Augur Buzzard Buteo augur	Ethiopia S to Zimbabwe and W to S Angola and N & C Namibia.	NGT. CITES II. Vulnerable to extensive afforestation of grassland habitat, or to lowered carrying capacity through overgrazing.	Not Recommended
Archer's Buzzard Buteo archeri	Highlands of N Somalia.	NGT. CITES II. Status uncertain. Appears vulnerable, due to small range and possibility of rapid degradation of habitat by cutting of trees and overgrazing. Virtually unstudied; on previous information lumped with related species <i>B. augur</i> and <i>B. rufofuscus</i> .	Not recommended
Jackal Buzzard Buteo rufofuscus	South Africa, S & C Namibia, Lesotho, Swaziland, S Mozambique and S Botswana.	NGT. CITES II.	Phase Out
Guiana Crested Eagle Morphnus guianensis	Guatemala and Honduras through Central America to Colombia and S to Paraguay, extreme NE Argentina	NGT. CITES II. Formerly red- listed in category Rare, but currently considered near threatened. Not immediately	Not recommended

Harpy Eagle Harpia harpyja New Guinea Eagle	(Misiones) and S Brazil; W of Andes, ranges S only to Serranía de Baudó (WC Colombia). S Mexico (from S Veracruz, Oaxaca and apparently Campeche) through Central America to Colombia, then E through Venezuela to the Guianas and S through E Bolivia and Brazil to extreme NE Argentina (Misiones). New Guinea.	threatened, but large size and low population densities make species particularly sensitive to the hunting pressure that accompanies any human incursions into forests. NGT. CITES II. Formerly redlisted in category Rare, but currently considered near threatened. Sparsely distributed throughout extensive range, and generally rare.	Candidate Species Not recommended
Harpyopsis novaeguineae		population density and apparently low reproductive rate; few detailed observations by ornithologists, and biology poorly known.	
Great Philippine Eagle Pithecophaga jefferyi	Larger islands of N & E Philippines, on Luzon, Leyte, Samar and Mindanao.	Endangered. CITES I. Probably less than 200 individuals remain in wild. Throughout range, main factors in population reduction are: loss of forest habitat; shooting for trophies; and capture of eagles for pets.	Not recommended
Indian Black Eagle Ictinaetus malayensis 2 subspecies I.m. perniger, I.m. malayensis	I.m. perniger - N India and Nepal; also S India (W & E Ghats, Orissa) and Sri Lanka. I.m. malayensis - Burma, SC & SE China (Yunnan, Fujian) and Taiwan, S through Indochina and Malay Peninsula to Greater Sundas, Sulawesi and Moluccas; possibly also Banggai and Sula Is.	NGT. CITES II. Main threat is loss of forests.	Not recommended

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2&	TAG
Lesser Spotted	A.p. pomarina - C, E & SE	NGT. CITES II. Has disappeared	Recommendation Not recommended
Eagle	Europe through Turkey and	from much of former range in W,	1 vot recommended
Aquila pomarina	Caucasus to S Caspian	e.g. W Germany, or become very	
2 subspecies	lowlands; E limit not well	rare, e.g. E Germany, former	
A.p. pomarina,	known. Winters in S Africa and	Yugoslavia, Greece.	
A.p. hastata	perhaps E Africa.		
	A.p. hastata - India (mainly N),		
	Bangladesh, and perhaps also N		
	Burma and Pakistan.		
Greater Spotted	EC Europe E through Russia to	NGT. CITES II. Total world	Not recommended
Eagle	S Ussuriland and Manchuria;	population certainly only some few	
Aquila clanga	isolated populations in N Iran	thousand birds, but populations	
	and NC India. Winters from S	very little studied. Very sensitive to	
	Europe, NE & E Africa and	habitat alterations, especially	
	Middle East through N Pakistan	drainage of wetlands.	
	to S & E China and Indochina.		

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Tawny Eagle	A.r. vindhiana - Pakistan, India,	NGT. CITES II. Very uncommon	Phase-out
Aquila rapax	and S Nepal; possibly also	in Nepal, where presumed to be	
3 subspecies	Burma.	resident. Status in Burma	
A.r. vindhiana, A.r.	A.r. belisarius - Morocco and	unknown: may be more vagrant;	
belisaurius,	Algeria; S Arabia and tropical	possibly very rare resident.	
A.r. rapax	Africa S to N Zaire and N		
	Kenya.		
	<i>A.r. rapax</i> - S Kenya and S		
	Zaire S to South Africa and W		
	to Angola and Namibia.		
Steppe Eagle	A.n. orientalis - SE European	NGT. CITES II. Extirpated from	Not recommended
Aquila nipalensis	Russia E tl L Balkhash and E	large areas of former range in W;	
2 subspecies	Kazakhstan, or perhaps to Tien	has disappeared from Romania,	
A.n. orientalis,	Shan and Altai; winters in	Moldavia and Ukraine due to	
A.n. nipalensis	Middle East, Arabia and E & S	habitat alteration, with conversion	
	Africa.	of steppes into fields, and	
	A.n. nipalensis - Altai and Tibet	persecution; also adversely affected	
	E to Manchuria; winters in S	by power lines.	
	Asia.		
Spanish Imperial	C, W & S Spain; formerly more	Endangered. CITES I. One of	Not recommended
Eagle	widespread, occurring in	rarest of all birds of prey. Total	
Aquila adalberti	Portugal and Morocco.	population down to c. 150 pairs.	
		Extinct in Morocco, Portugal and	
		many parts of Spain, and now	
		restricted to C, W & S Spain.	
		Major conservation programme in	
		progress in country of orgin	
Eastern Imperial	C Europe and Turkey E to	Rare. CITES I. Rapid decline in	Not recommended
Eagle	Transbaikalia and Mongolia.	Europe since World War II;. Now	
Aquila heliaca	Winters S to E Africa, Arabia,	very rare or extinct in many areas	
1	N India and E China.	of SE Europe. Only in Slovakia	
		and Hungary is species well	
		protected and increasing.	
		International working group for	
		species has been formed, and 3	
		meetings held in Hungary.	
		Conservation Action Plan in	
		preparation.	
Wahlberg's Eagle	Mauritania E t Ethiopia and S to	NGT. CITES II. Vulnerable to	Not recommended
Aquila wahlbergi	South Africa.	clearing of woodland; not known to	1.001000mmondod
		be affected by pesticides, but	
		accidental poisoning may result in	
		local population declines.	
Gurney's Eagle	New Guinea, W Papuan Is and	NGT. CITES II. Apparently	Not recommended
Aquila gurneyi	Aru Is; also Moluccas, where	presents low population density;	1 tot recommended
11quiu guineyi	recorded on Morotai,	seldom encountered by	
	Halmahera, Ternate, Bacan and	ornithologists; biology unknown.	
	Ambon, and recently on Seram.	Possibly threatened by	
	Amoon, and recently on Serain.	deforestation in lowlands.	
		actorestation in lowialius.	

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
Golden Eagle Aquila chrysaetos 6 subspecies A.c. homeyeri, A.c. chrysaetos, A.c. daphanea, A.c. japonica, A.c. kamtschatica, A.c. canadensis	A.c. homeyeri - Iberian Peninsula, NW Africa and large Mediterranean islands E through Egypt, Asia Minor and Arabia to Caucasus and Iran. A.c. chrysaetos - NW & C Europe E to W & C Siberia and Altai. A.c. daphanea - Turkestan E to Manchuria, and S to Pakistan, Himalayas and SW China. A.c. japonica - Korea and Japan. A.c. kamtschatica - W & C Siberia and Altai E to Kamchatka. A.c. canadensis - North America, from Alaska S to Durango (WC Mexico), and E to Labrador, Quebec and New York.	NGT. CITES II.Limiting factors now are food supply and conservation of favourable habitat.	Recommendation Monitored Program
Wedge-tailed Eagle Aquila audax 2 subspecies A.a. audax, A.a. fleayi	A.a. audax - Australia, S New Guinea. A.a. fleayi - Tasmania.	NGT. CITES II. Local declines in S through habitat disturbance in heavily settled and farmed areas, because intolerance to human activity leads to nest abandonment; has benefited elsewhere from thinning of tree cover, introduction of rabbit and provision of abundant carrion.	Not recommended
Verreaux's Eagle Aquila verreauxii	S Chad and W Sudan; from Israel, Egypt (Sinai) and SE Arabian Peninsula; Ethiopia to Somalia and thence S, with main range Kenya S to South Africa.	NGT. CITES II. Rugged terrain often last to be modified, but species declines where drought, overgrazing and hunting combine to reduce hyrax prey. Persecuted heavily in some areas of small-stock farming, and eliminated from parts of S Africa. The most studied eagle in Africa.	Phase-out
Bonelli's Eagle Hieraaetus fasciatus 2 subspecies H.f. fasciatus, H.f. renschi	H.f. fasciatus - NW Africa and Iberian Peninsula E through Mediterranean, SW Asia and Arabia to Afghanistan, Pakistan and India, and on through N Indochina to S China. H.f. renschi - Sumbawa, Timor, Wetar, Luang and probably Flores (Lesser Sunda Is).	NGT. CITES II. In decline in Europe, with some regional stabilization. Almost extinct in former USSR; widely distributed but rare or uncommon in Indian Subcontinent.	Not recommended
African Hawk- eagle Hieraaetus spilogaster Booted Eagle	Senegambia E to Ethiopia and Somalia, and S to NE South Africa. SW Europe and NW Africa	NGT. CITES II. Vulnerable to cutting of woodland, and persecuted in many areas for attacks on poultry. Not known to be affected by pesticides. NGT. CITES II. Population sizes	Not recommended Not recommended

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Hieraaetus	through E Europe, Asia Minor	not well know, and only fairly	
pennatus	and Caucasus to C Asia, NE to	approximate estimate available;	
	Mongolia and L Baikal area,	little information on trends,	
	and SE to N India; also Cape	although apparently stable in	
	Province (S South Africa) and	general. Some negative factors	
	perhaps Namibia. Winters	affecting species are habitat	
	mostly in Africa S of Sahara,	degradation, decline in prey	
	and in S Asia, especially India.	species, and human persecution;	
		declining in Ukraine due to	
		deforestation.	
Little Eagle	<i>H.m. weiskei</i> - New Guinea.	NGT. CITES II. Possibly affected	Not recommended
Hieraaetus	<i>H.m. morphnoides</i> - Australia.	locally, to minor degree, by	
morphnoides		extensive habitat clearance or by	
2 subspecies		excessive loss of trees.	
H.m. weiskei, H.m.			
morphnoides			
Ayres's Hawk-	Sierra Leone E to Ethiopia and	NGT. CITES II. Generally	Not recommended
eagle	Somalia, then S to N Namibia,	considered rare and sparsely	
Hieraaetus ayresii	N Botswana and NE South	distributed; apparently only	
	Africa.	reasonably common in woodlands	
		of C Africa. Vulnerable to clearing	
		of woodland.	
Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Rufous-bellied	<i>H.k. kienerii -</i> NE India and	NGT. CITES II. Widespread, but	Not recommended
Eagle	Nepal; SW India (W Ghats) and	status variable: rare in Java and	
Hieraaetus kienerii	Sri Lanka.	Burma; scarce in Nepal;	
2 subspecies	<i>H.k. formosus</i> - Burma and	uncommon in Philippines;	
H.k. kienerii, H.k.	Hainan through W, S & EC	moderately common in Sulawesi.	
formosus	Indochina and Malay Peninsula	During recent raptor survey in Java	
	to Greater Sundas, Bali,	only rarely recorded, invariably in	
	Philippines and Sulawesi.	forest fragments. Recently found to	
		be common in forested areas of NE	
		India and SW India (W Ghats). Has	
		undoubtedly suffered as result of	
		extensive deforestation that still	
		continues throughout most of	
		range.	
Martial Eagle	Senegambia E to Ethiopia and S	NGT. CITES II. Heavily	Phase Out
Polemaetus	to South Africa.	persecuted in some small-stock and	
bellicosus		free-range poultry farming areas,	
		and extirpated from parts of South	
		Africa, Namibia and Zimbabwe. B	
Black-and-white		I NCT CITEC II Commontly	Not recommended
1 1 -	E & S Mexico (Veracruz,	NGT. CITES II. Currently	Not recommended
Hawk-eagle	Oaxaca) through Central	considered near-threatened.	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S	considered near-threatened. Extensive range, but spotty	Not recommended
	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador,	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador, and E through N Venezuela to	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but relatively common at one forest	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador, and E through N Venezuela to the Guianas, then S through E &	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but relatively common at one forest site in French Guiana, with	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador, and E through N Venezuela to the Guianas, then S through E & S Brazil to NE Argentina and	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but relatively common at one forest site in French Guiana, with estimated average density of at	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador, and E through N Venezuela to the Guianas, then S through E & S Brazil to NE Argentina and Paraguay; E Peru (Loreto) and	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but relatively common at one forest site in French Guiana, with estimated average density of at least 7 individuals/10,000 ha; rare	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador, and E through N Venezuela to the Guianas, then S through E & S Brazil to NE Argentina and Paraguay; E Peru (Loreto) and N & E Bolivia (Beni to Santa	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but relatively common at one forest site in French Guiana, with estimated average density of at least 7 individuals/10,000 ha; rare and very local in Colombia;	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador, and E through N Venezuela to the Guianas, then S through E & S Brazil to NE Argentina and Paraguay; E Peru (Loreto) and	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but relatively common at one forest site in French Guiana, with estimated average density of at least 7 individuals/10,000 ha; rare and very local in Colombia; sparesly distributed throughout	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador, and E through N Venezuela to the Guianas, then S through E & S Brazil to NE Argentina and Paraguay; E Peru (Loreto) and N & E Bolivia (Beni to Santa	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but relatively common at one forest site in French Guiana, with estimated average density of at least 7 individuals/10,000 ha; rare and very local in Colombia; sparesly distributed throughout Brazil. Tolerance of diverse habitat	Not recommended
Spizastur	Oaxaca) through Central America to Colombia, whence S on Pacific slope to W Ecuador, and E through N Venezuela to the Guianas, then S through E & S Brazil to NE Argentina and Paraguay; E Peru (Loreto) and N & E Bolivia (Beni to Santa	considered near-threatened. Extensive range, but spotty distribution. Rare in most areas, but relatively common at one forest site in French Guiana, with estimated average density of at least 7 individuals/10,000 ha; rare and very local in Colombia; sparesly distributed throughout	Not recommended

		transformation of habitat.	
Long-crested	Senegambia E to Ethiopia and S	NGT. CITES II. Vulnerable to	Not recommended
Eagle	to N Namibia, N Botswana and	degradation of woodland and	
Lophaetus	E South Africa.	drainage of wetlands, but	
occipitalis		compensates to some extent by	
occipitatis		using exotic plantations, small	
		agricultural clearings and other	
		secondary forest habitats.	
Cassin's Hawk-	Sierra Leone and Liberia E to	NGT. CITES II. Recorded	Not recommended
			Not recommended
eagle	W Uganda and E Zaire; also	infrequently, but probably	
Spizaetus	NW Angola.	commoner than supposed, and	
africanus		large tracts of forest habitat still	
		exist in Congo Basin. Vulnerable to	
		deforestation, but uses many	
		secondary habitats; numbers	
		probably reduced in many areas of	
		W Africa.	
Changeable Hawk-	S.c. cirrhatus - India S of	NGT. CITES II. Widespread and	Not recommended
eagle	Rajasthan and Gangetic Plain.	apparently common to uncommon	
Spizaetus cirrhatus	S.c. ceylanensis - Sri Lanka.	throughout extensive range; scarce	
6 subspecies	S.c. andamanensis - Andaman	in Java, due to deforestation.	
S.c. cirrhatus, S.c.	Is.		
ceylanensis,	S.c. limnaeetus - N India and		
S.c. andamanensis,	Nepal through Burma, W & S		
S.c. Limnaeetus,	Indochina and Malay Peninsula		
S.c. vanheurni, S.c.	to Greater Sundas and W & SE		
floris	Philippines (Palawan, Mindoro,		
	Mindanao).		
	S.c. vanheurni - Simeulue I (off		
	W Sumatra).		
	S.c. floris - Mountains of		
	Sumbawa and Flores.		
Mountain Hawk-	S.n. orientalis - Japan.	NGT. CITES II. Uncommon to	Not recommended
eagle	S.n. nipalensis - Himalayas of	rare; has undoubtedly suffered as	1 vot recommended
Spizaetus	India and Nepal E through S	result of extensive deforestation	
nipalensis	China and Hainan to E China	that still continues through most of	
3 subspecies	and Taiwan, and S to N	_	
*		range.	
S.n. orientalis, S.n.	Indochina and N Malay		
nipalensis,	Peninsula; recently Vietnam.		
S.n. kelaarti	C - L-1		
	S.n. kelaarti - SW India (W		
D1-41-2 II 1	Ghats) and Sri Lanka.	NOT OTTES IL C. II	NI-4 1 1
Blyth's Hawk-	S Burma (Tenasserim) and S	NGT. CITES II. Generally appears	Not recommended
eagle	Thailand through Malay	to be uncommon. Long term threat	
Spizaetus	Peninsula to Sumatra and off-	is loss of habitat, with extensive	
alboniger	lying islands; N Borneo.	deforestation throughout much of	
		range.	
Common Name	_	Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
	_	<u>5</u>)	Recommendation
Javan Hawk-eagle	Java.	Vulnerable. CITES II. One of	Not recommended
Spizaetus bartelsi		rarest of all raptors. Chronic loss of	
		forest is major factor in decline of	
		species, along with expotential	
		growth of human population in	
		Java	
Sulawesi Hawk-	Sulawesi and off-lying islands	NGT. CITES II. Currently	Not recommended

eagle	of Mana and Datas as Dagger Is	considered near-threatened.	
C	of Muna and Butung; Baggai Is		
Spizaetus	(Peleng) and Sula Is.	Generally uncommon and local;	
lanceolatus	DI'I' ' I	status very poorly known.	NT 4 1 1
Philippine Hawk-	Philippine Is.	NGT. CITES II. Currently	Not recommended
eagle		considered near-threatened	
Spizaetus		Overall status very poorly known.	
philippensis			
Wallace's Hawk-	S.n. nanus - S Burma	Rare. CITES II. Uncommon to	Not recommended
eagle	(Tennaserrim) and S Thailand	rare. Increasingly threatened by	
Spizaetus nanus	through Malay Peninsula to	loss of lowland rain forest	
2 subspecies	Sumatra and Borneo.	throughout range;. Race stresmanni	
S.n. nanus, S.n.	S.n. stresemanni - Nias I (off	of Nias I currently reckoned to be	
stresemanni	W Sumatra).	endangered.	
Black Hawk-eagle	S.t. serus - C Mexico S to	NGT. CITES II. Fairly common in	Not recommended
Spizaetus tyrannus	Colombia, whence E of Andes	suitable habitat, but not in areas	1 vot recommended
2 subspecies	to the Guianas, Trinidad and	that have been heavily disturbed by	
S.t. serus, S.t.	Brazil, and S to Paraguay and	agriculture. Declining in Mexico,	
	NE Argentina; recent records W	due to habitat loss caused by cattle	
tyrannus	of Andes in Ecuador and Peru		
		ranching, the timber industry and	
	(but not Colombia).	tourism.	
	S.t.tyrannus - E & S Brazil and		
	extreme NE Argentina		
	(Misiones).		
Ornate Hawk-	S.o. vicarius - SE Mexico	NGT. CITES II.	Phase Out
eagle	through Central America to W		
Spizaetus ornatus	Colombia and W Ecuador.		
2 subspecies	S.o. ornatus - E Colombia E to		
S.o. vicarius, S.o.	the Guianas and Trinidad, and S		
ornatus	through E Ecuador, NE Peru, N		
	& E Bolivia and Brazil to		
	Paraguay and N Argentina		
	(Jujuy to Misiones).		
Crowned Hawk-	Senegambia E to S Kenya and	NGT. CITES II. Vulnerable to	Phase Out
eagle	C Ethiopia, and S to Angola,	deforestation and overhunting of	1111100 0 411
Stephanoaetus	NE Botswana and E South	prey animals, so now rare in many	
coronatus	Africa.	parts of W Africa	
Black-and-chestnut	Coastal ranges of NW	NGT. CITES II. Currently	Not recommended
		considered near-threatened. Rare	TNOT recommended
Eagle	Venezuela (Carabobo) and NE		
Oroaetus isidori	Colombia (Santa Marta Mts),	and patchily distributed; status very	
	and S on subtropical slopes of	poorly known.	
	Andes from Venezuela (Mérida)		
	through Colombia, Ecuador and		
	Peru to WC Bolivia andNW		
	Argentina.		

FAMILY SAGITTARIIDAE (SECRETARYBIRD)

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Secretarybird	Senegambia E to Ethiopia and	NGT. CITES II. Afforestation of	Red SSP
Sagittarius	Somalia, and S to South Africa.	grasslands and intensive land use	
serpentarius		have eliminated habitat, with some	
		compensation where bush has been	
		cleared for grazing or croplands.	
		No total population estimates but	

	over 1000 breeding pairs throught	
	to occur in Transvaal Province of	
	South Africa alone.	

FAMILY FALCONIDAE (FALCONS & CARACARAS)

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Black Caracara Daptrius ater	E Colombia, S Venezuela and the Guianas S through Amazonia to E Peru, NE Bolivia and C Brazil (Maranhão, N Mato Grosso).	NGT. CITES II. Status very poorly known. Extensive range and catholic taste in terms of habitat and feeding habits suggest species relatively secure.	Not recommended
Red-throated Caracara Daptrius americanus	Extreme S Mexico (Chiapas) S to Colombia, S on Pacific slope to W Ecuador, and E of Andes to C Peru, N & E Bolivia and S Brazil (NW Paraná, Mato Grosso and São Paulo).	NGT. CITES II.	Not recommended
Carunculated Caracara Phalcoboenus carunculatus	Andes of Ecuador and SW Colombia.	NGT. CITES II. Probably relatively secure at present, as habitat not under significant pressure; no reports of persecution.	Not recommended
Mountain Caracara Phalcoboenus megalopterus	Andes from N Peru (Piura), through Bolivia to NW Argentina and C Chile (Colchagua).	NGT. CITES II.	Not recommended
White-throated Caracara Phalcoboenus albogularis	S Chile (Nublé) and S Argentina (S Mendoza) S to Tierra del Fuego.	NGT. CITES II. Habitat not subject to much disturbance, and no persecution reported, so presumably not a species of immediate concern.	Not recommended
Striated Caracara Phalcoboenus australis	Islets off extreme S South Africa.	NGT. CITES II. Currently considered near-threatened. Rare overall.	Not recommended
Crested Caracara Polyborus plancus 4 subspecies P.p. pallisud, P.p. audubonii, P.p. cheriway, P.p. plancus	P.p. pallidus - Tres Marías Is, off W Mexico. P.p. audubonii - S USA (Florida; Texas to Arizona) through Central America to W Panama; Cuba, I of Pines. P.p. cheriway - E Panama	NGT. CITES II. Locally persecuted in some farming regions (e.g. in S Chile)	Phase Out

	through C & E Colombia to the Guianas and S to N Peru and R Amazon; Aruba (Netherlands Antilles) E to Trinidad. *P.p. plancus - C Peru and C Bolivia E to Amazon Delta and S to Tierra del Fuego; Falkland Is.		
Yellow-headed Caracara Milvago chimachima 2 subspecies M.c. cordatus, M.c. chimachima	M.c. cordatus - S Costa Rica and Panama (including Pearl Is) through Colombia to the Guianas and Trinidad and S (E of Andes) to Amazon. M.c. chimachima - E Bolivia and Brazil S of Amazon to Paraguay, N Argentina and Uruguay.	NGT. CITES II.	Not recommended
Chimango Caracara Milvago chimango 2 subspecies M.c. chimango, M.c. temucoensis	M.c. chimango - N & C Chile and N & C Argentina through Paraguay to Uruguay and adjacent Brazil. M.c. temucoensis - S Chile (from near Concepción) and S Argentina (from R Chubut) S to Tierra del Fuego and Cape Horn. Introduced to Easter I (S Pacific).	NGT. CITES II.	Not recommended
Laughing Falcon Herpetotheres cachinnans 2 subspecies H.c. chapmani, H.c. cachinnans, H.c. queribundus	H.c. chapmani - Mexico (S Sonora and San Luis Potosí) S to Honduras. H.c. cachinnans - Nicaragua to Colombia and S to Peru and C Brazil. H.c. queribundus - E Bolivia and E Brazil (S to São Paulo) to Paraguay and N Argentina.	NGT. CITES II.	Not recommended

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Common Name		Status in Wild (from <u>Handbook</u>	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
	<u> </u>	<u>5</u>)	Recommendation
Barred Forest-	M.r. guerilla - S Mexico to	NGT. CITES II.	Not recommended
falcon	Nicaragua.		
Micrastur	<i>M.r. interstes</i> - Costa Rica and		
ruficollis	Panama to W Colombia and W		
6 subspecies	Ecuador.		
M.r. guerilla, M.r.	M.r. zonothorax - Colombia		
interstes,	and Venezuela, in E Andean		
M.r. zonothorax,	foothills, S perhaps to Bolivia.		
M.r. concentricus,	M.r. concentricus - S		
M.r.ruficollis, M.r.	Venezuela, the Guianas and		
olrogi	Amazonia.		
	<i>M.r. ruficollis</i> - S of Amazonia		
	in Brazil, Paraguay and NC &		
	NE Argentina.		
	<i>M.r. olrogi</i> - NW Argentina, in		
	subtropical forests.		
Plumbeous Forest-	SW Colombia (Cauca, Nariño)	Vulnerable. CITES II. Suffering	Not recommended

falcon	and NW Ecuador (Esmeraldas).	from deforestation and degradation	
Micrastur		of habitat within limited range, both in Colombia and Ecuador	
<i>plumbeus</i> Lined Forest-	E Colombia through S	NGT. CITES II.	Not recommended
falcon	Venezuela to the Guianas, and S	NOT. CITES II.	Not recommended
Micrastur	throughout Amazonia.		
gilvicollis	unougnout Amazoma.		
Slaty-backed	Costa Rica, Panama and	NGT. CITES II. Status very poorly	Not recommended
Forest-falcon	Colombia (including W slope of	known, pehaps in part because so	1 vot recommended
Micrastur	Andes) through the Guianas and	easily confused with other species.	
mirandollei	Amazonia to E Brazil (Espírito	Widely distributed, but everywhere	
	Santo).	rare. One of rarest forest raptors in	
	,	French Guiana, with estimated	
		minimum average density of only 4	
		individuals/10,000 ha of forest.	
Collared Forest-	M.s. nasu - NC Mexico	NGT. CITES II. Not uncommon	Not recommended
falcon	(Sinaloa to Tamaulipas) S	over vast range; secretive nature	
Micrastur	through Central America to N &	presumably reduces threat from	
semitorquatus	W Colombia and Ecuador.	hunters.	
2 subspecies	<i>M.s. semitorquatus -</i> E		
M.s. naso, M.s.	Colombia E to the Guianas, and		
semitorquatus	S through E Peru, N & E		
	Bolivia and Brazil to Paraguay		
D 11 2 E	and N Argentina.	I Office H	37 / 1.1
Buckley's Forest-	Amazonian reaches of Ecuador	Insufficiently known. CITES II.	Not recommended
falcon	and Peru; single record from SE	Status virtually unknown. Secretive	
Micrastur buckleyi	Colombia; apparent recent record from Brazil (R Juruá,	nature of genus and sympatry with	
	Acre) has now been withdrawn.	very similar <i>M.semitorquatus</i> render estimates of population	
	Acre) has now been withdrawn.	levels very difficult.	
Spot-winged	E Bolivia (Santa Cruz) through	NGT. CITES II. Status virtually	Not recommended
Falconet	Paraguay to N & C Argentina	unknown; habitat is not amongst	
Spiziapteryx	(S to Río Negro).	most seriously devastated in the	
circumcinctus		region. Single record from	
		Paraguay.	
African Pygmy-	S Ethiopia, Somalia, NE	NGT. CITES II.	Yellow SSP
falcon	Uganda and Kenya to NC		
Polihierax	Tanzania; S Angola and		
semitorquatus	Namibia to NW South Africa.		
White-rumped	P.i. insignis - W & C Burma,	NGT. CITES II. Uncommon and	Not recommended
Pygmy-falcon	especially in valley of R	local in Thailand.	
Polihierax insignis	Irrawaddy.		
3 subspecies	P.i. cinereiceps - S Burma		
P.i. insignis, P.i.	(Tenasserim) and Thailand.		
cinereiceps, P.i. harmandi	P.i. harmandi - S Indochina, in		
F.i. narmanai	S & C Laos, S Vietnam (S Annam, Cochinchina) and		
	Kampuchea.		
	Trampuchea.		
Collared Falconet	M.c. caerulescens - E	NGT. CITES II. Tolerance of	Not recommended
Microhierax	Himalayas of India (Kumaon)	disturbed habitats, along with fairly	
caerulescens	and Nepal to NE India (N	varied diet, suggests species in no	
2 subspecies	Assam).	danger.	
M.c.	<i>M.c. burmanicus</i> - Burma E to		
caerulenscens,	C & S Indochina.		
M.c.burmanicus			

Common Name		Status in Wild (from Handbook	TT 4 C
Scientific Name	Range	to the Birds of the World vol. 2& 5)	TAG Recommendation
Black-thighed Falconet Microhierax fringillarius	S Burma (S Tenasserim) and S Thailand through Peninsular Malaysia to Sumatra, Borneo, Java and Bali.	NGT. CITES II. Tolerance of disturbed habitats, along with fairly varied diet, suggests species in no danger.	Not recommended
White-fronted Falconet Microhierax latifrons	N Borneo, in extreme NE Sawawak and Sabah.	NGT. CITES II. Currently considered near-threatened. Status uncertain,.	Not recommended
Philippine Falconet Microhierax erythrogenys 2 subspecies M.e. erythrogenys, M.e. meridionalis	M.e. erythrogenys - Luzon, Mindoro, Negros and Bohol (Philippines). M.e. meridionalis - Samar, Leyte and Cebu to Mindanao (Philippines).	NGT. CITES II.	Not recommended
Pied Falconet Microhierax melanoleucus	NE India (Assam) E across S China to Zhejiang, and S to N Laos and N & C Vietnam.	NGT. CITES II. Currently considered near-threatened	Not recommended
Lesser Kestrel Falco naumanni	SW Europe and N Africa E through E Europe, Asia Minor and Iran to Mongolia and N China (E to Shandong). Winters in Africa S of Sahara; also and irregularly in parts of S Asia.	Rare. CITES II. Drastic and apparently widespread decline in second half of 20 th century	Not recommended
Common Kestrel Falco tinnunculus 11 subspecies F.t. tinnunculus, F.t. interstinctus, F.t. objurgatus, F.t. canariensis, F.t. dacotiae, F.t. neglectus, F.t. alexandri, F.t. rupicolaeformis, F.t. archerii, F.t. rufescens, F.t. rupicolus	F.t. tinnunculus - N Africa, Europe and Middle East E to E Siberia and Soviet Far East. F.t. interstinctus - Tibet E through N Indochina and S & C China to Korea and Japan; winters S to India, Malay Peninsula and Philippines. F.t. objurgatus - S India (W & E Ghats) and Sri Lanka. F.t. canariensis - Madeira and W Canary Is. F.t. dacotiae - E Canary Is. F.t. neglectus - N Cape Verde Is. F.t. neglectus - N Cape Verde Is. F.t. rupicolaeformis - NE Africa and Arabia. F.t. archerii - Somalia, coastal Kenya and Socotra. F.t. rufescens - W & C Africa, E to Ethiopia and S to S Tanzania and N Angola. F.t. rupicolus - N Angola, S Zaire and S Tanzania S to S South Africa.	NGT. CITES II.	Not recommended
Madagascar Kestrel	Madagascar and Aldabra Is; perhaps rare vagrant to the	NGT. CITES II. Possible race aldabranus included on CITES I.	Not recommended

Falco newtoni	Comoro Is.		
Mauritius Kestrel Falco punctatus	Mauritius I, SW Indian Ocean.	Endangered. CITES I. One of the rarest birds in the world by 1974, when only two pairs remained in the wild, due to cumulative loss of forest habitat, pesticides and depredations of introduced hunters. Captive propagation since, raised population in the wild to at least 50 breeding pairs and over 200 birds by 1993. Was, and may still be, vulnerable to pesticide use.	Not recommended
Seychelles Kestrel Falco araea	Islands of the Seychelles, W Indian Ocean. On Mahé and its satellites (St Anne, Cerf, Longue and probably Thérèse), Silhouette and North. Reitroduced to Praslin; vagrant to La Digue; and historically on Curieuse, Félicité, Marianne and possibly Sisters.	NGT. CITES II.	Not recommended

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& 5)	TAG Recommendation
Spotted Kestrel Falco moluccensis 2 subspecies F.m. moluccensis, F.m. microbalia	F.m. moluccensis - Moluccas, from Morotai and Halmahera S to Buru, Seram and Seram Laut. F.m. microbalia - Sulawesi and surrounding small islands; Java and Lesser Sundas E to Tanimbar Is.	NGT. CITES II.	Not recommended
Australian Kestrel Falco cenchroides 2 subspecies F.c. cenchroides, F.c. baru	F.c. cenchroides - Australia, Tasmania, Lord Howe I, Norfolk I and Christmas I (Indian Ocean). Winters irregularly from Lesser Sundas and Moluccas through Aru Is and S New Guinea; occasionally to New Zealand. F.c. baru - Montane WC New Guinea.	NGT. CITES II.	Not recommended
American Kestrel Falco sparverius 17 subspecies F.s. sparverius, F.s. paulus, F.s.peninsularis, F.s. tropicalis, F.s. nicaraguensis, F.s. dominicensis, F.s. caribaearum, F.s. brevipennis, F.s. isabellinus, F.s. ochraceus, F.s. caucae,	F.s. sparverius - North America, from Alaska to Newfoundland, and S to W Mexico, except SE USA and coastal W Mexico; winters S through C American to Panama. F.s. paulus - South Carolina to Florida, USA. F.s. peninsularis - S Baja California, Sonora and Sinaloa, Mexico. F.s. tropicalis - S Mexico to N Honduras. F.s. nicaraguensis - Lowland pine savannas in Honduras and	NGT. CITES II. No reliable estimates for most of Neotropical range. Decreasing in parts of SE USA, e.g. Florida (with entire population of race <i>paulus</i>), because of habitat alterations; scarce or decreasing in some other regions of USA, e.g. Texas and Arkansas.	Phase Out

E a acquatovialia	Nigorogue	
F.s. aequatorialis,	Nicaragua.	
F.s. peruvianus,	F.s. sparverioides - Cuba and I	
F.s. fernandensis,	of Pines; Bahamas.	
F.s.	<i>F.s. dominicensis</i> - Hispaniola.	
cinnamominus,	<i>F.s. caribaearum</i> - Puerto Rico	
F.s. cearae	to Grenada.	
	<i>F.s. brevipennis</i> - Aruba,	
	Curação and Bonaire	
	(Netherlands Antilles).	
	F.s. isabellinus - Venezuela to	
	N Brazil.	
	F.s. ochraceus - Mountains of	
	E Colombia and NW	
	Venezuela.	
	F.s. caucae - Mountains of W	
	Colombia.	
	<i>F.s. aequatorialis</i> - Subtropical	
	N Ecuador.	
	F.s. peruvianus - Subtropical	
	SW Ecuador, Peru and N Chile.	
	F.s. fernandensis - Robinson	
	Crusoe I (Más a Tierra), in Juan	
	Fernández Is, off WC Chile.	
	F.s. cinnamominus - SE Peru,	
	,	
	Chile and Argentina S to Tierra	
	del Fuego.	
	F.s. cearae - Tablelands from	
	NE Brazil S and W to E	
	Bolivia.	

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Greater Kestrel	F.r. fieldi - N & E Ethiopia,	NGT. CITES II.	Not recommended
Falco rupicoloides	NW Somalia.		
3 subspecies	F.r. arthuri - NE Tanzania,		
F.r. fieldi, F.r.	Kenya.		
arthuri, F.r.	F.r. rupicoloides - Namibia,		
rupicoloides	Botswana, SW Zambia and		
	Zimbabwe to South Africa.	Non-orange to the design of th	
Fox Kestrel	Senegambia E through N	NGT. CITES II. Little studied and	Not recommended
Falco alopex	Cameroon and Sudan to Red	may be vulnerable through limited	
	Sea coast of Ethiopia, S to NE	and localized breeding range on	
	Zaire, NW Kenya and NE	rocky hills, although these	
	Uganda.	eminences are usually less subject	
		to habitat degradation than the	
G 77 1		surrounding savanna.	37 . 1.1
Grey Kestrel	Senegambia E to Ethiopia and S	NGT. CITES II.	Not recommended
Falco ardosiaceus	through W Kenya and W		
	Tanzania to Angola, N Zambia,		
	N Namibia and NW Botswana.		
Dickinson's	SC Africa, from Angola E	NGT. CITES II.	Not recommended
Kestrel	through S Zaire to SC Tanzania		
Falco dickinsoni	(including Zanzibar and		
	Pemba), and S to N Namibia, N		
	Botswana and NE South Africa.		
Banded Kestrel	Madagascar.	NGT. CITES II. Currently	Not recommended

Falco zoniventris		considered near-threatened. Locally common but habitat limited and declining through	
		deforestation. Not more than 1000	
		pairs predicted as total population,	
		but able to exist in secondary	
		habitats in some areas	
Red-necked Falcon Falco chicquera 3 subspecies F.c. chicquera, F.c. ruficollis, F.c. horsbrughi	F.c. chicquera - SE Iran E through Pakistan and India to Nepal and Bangladesh. F.c. ruficollis - Senegambia E to Ethiopia and S Somalia, then S to Zambia, Malawi and N Mozambique. F.c. horsbrughi - S of R Zambezi, from Zimbabwe and S Mozambique W to Botswana, Namibia and S Angola, and S to	NGT. CITES II.	Not recommended
	N South Africa.		
Red-footed Falcon Falco vespertinus	E Europe, from Estonia and Hungary, E through NC Asia to extreme NW China and upper R Lena. Winters mainly in SW Africa, from Angola, Namibia and N South Africa through Botswana to Zimbabwe and Zambia.	NGT. CITES II. Marked decline, particularly in S of breeding range, probably due, directly or indirectly, to pesticide use.	Not recommended
Amur Falcon Falco amurensis	Transbaikalia (SE Siberia) and NE Mongolia E to Amurland and S to N & E China and N Korea; has bred in Assam (NE India). Winters in S Africa, mainly from Malawi to Transvaal.	NGT. CITES II. Size of population not known; may be stable; at least locally common, e.g. SE of L Baikal and in Mongolia.	Not recommended
Eleanora's Falcon Falco eleonorae	Islands and rocky coasts from Canary Is and NW Morocco E through Mediterranean to Lemnos, N Sporades, Cyclades, Dodecanese, Crete and Cyprus. Winters mainly in Madagascar, but also in E Africa and Mascarene Is.	NGT. CITES II.	Not recommended

Common Name	D.	Status in Wild (from Handbook	TAG
Scientific Name	Range	to the Birds of the World vol. 2& 5)	TAG Recommendation
Sooty Falcon Falco concolor	E Libya through Egypt, Israel and Jordan to coasts of Red Sea and Persian Golf, E to SW Pakistan. Winters in Madagascar, and also in SE Africa.	NGT. CITES II. Numbers possibly stable.	Not recommended
Aplomado Falcon Falco femoralis 3 subspecies F.f. septentrionalis,	F.f. septentrionalis - S USA (Arizona, New Mexico and Texas) S locally through Mexico to Guatemala. F.f. femoralis - Nicaragua and	NGT. CITES II. Virtually eliminated for poorly understood reasons in S USA and N Mexico;	Phase Out

	Γ		
F.f. femoralis,	Belize through Panama to		
F.f. pichinchae	Colombia, E to the Guianas, and		
	S through E Bolivia and Brazil		
	to Argentina, extending S to		
	Tierra del Fuego.		
	F.f. pichinchae - Temperate		
	zones of SW Colombia,		
	Ecuador, Peru and W Bolivia S		
	to N Chile and NW Argentina		
3.6 12	(Tucumán).	NOT CITED II C CA .	DI O
Merlin	F.c. subaesalon - Iceland.	NGT. CITES II. Status of Asian	Phase Out
Falco columbarius	F.c. aesalon - N Eurasia, from	races not satisfactorily	
9 subspecies	Faeroes E to C Siberia.	documented	
F.c. subaesalon,	F.c. insignis - Siberia, E of R		
F.c. aesalon,	Yenisey to R Kolyma.		
F.c. insignis, F.c.	F.c. pacificus - Soviet Far E,		
pacificus,	inleuding Sakhalin I.		
F.c. pallidus, F.c.	F.c. pallidus - Steppes of Asia,		
lymani, F.c.	from near Aral Sea to Altai Mts.		
suckleyi,	F.c. lymani - Mountains of C		
F.c. columbarius,	Asia, in Turkestan, E Russia,		
F.c. richardsoni	NW China and Mongolia.		
	F.c. suckleyi - Pacific coast of		
	North America, from Alaska and British Columbia to N		
	Washington.		
	F.c. columbarius - North		
	America, from Alaska and		
	British Columbia to N		
	Washington.		
	<i>F.c. richardsoni</i> - Great Plains		
	of North America, from C		
	Alberta S to Wyoming.		
Bat Falcon	F.r. petoensis - N Mexico (from	NGT. CITES II.	Not recommended
Falco rufigularis	Sonora E to Tamaulipas) S	1,01. 61125 11.	1,001,000,000
3 subspecies	through Central America to		
F.r. petoensis, F.r.	Colombia, and W of Andes S to		
rufigularis,	Ecuador.		
F.r. ophryophanes	<i>F.r. rufigularis</i> - E Colombia E		
1 7 1	to the Guianas and Trinidad,		
	and S to S Brazil and N		
	Argentina.		
	F.r. ophryophanes - Tableland		
	of C Brazil (Piauí S to Mato		
	Grosso, São Paulo and Paraná)		
	and adjacent Bolivia, Paraguay		
	and N Argentina.		
Orange-breasted	S Mexico S through Central	NGT. CITES II. Currently	Not recommended
Falcon	America to Colombia, E to the	considered near-threatened. Sparse	
Falco deiroleucus	Guianas and Trinidad, and E of	distribution throughout range and	
	Andes S through Brazil and	apparent sensitivity to deforestation	
	Bolivia to Paraguay and N	suggest species requires careful	
	Argentina.	attention Population of	
		Guatemala and Belize possibly	
		disjunct now from South American	
		populations, and may merit special	
		concern.	

Eurasian Hobby	F.s. subbuteo - NW Africa and	NGT. CITES II. Population levels	Not recommended
Falco subbuteo	Europe E through C Asia and N	and trends not well known;	
2 subspecies	China to Kamchatka, Sakhalin		
F.s. subbuteo, F.s.	and N Japan; winters in C & S		
streichi	Africa and S Asia.		
	<i>F.s. streichi</i> - S & E China, S		
	from Qin Ling Mts (S Shaanxi);		
	possibly also N & E Burma and		
	N Indochina.		

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
African Hobby Falco cuvierii	Senegambia E to Ethiopia and S to SE South Africa.	NGT. CITES II.	Not recommended
Oriental Hobby Falco severus	NW India and Nepal E to Yunnan, Guangdong and Hainan (S China), and S through Burma, Thailand and Indochina to Philippines, Java and Sulawesi, whence E through New Guinea to Solomon Is. Himalayan birds winter S to S India and Sri Lanka.	NGT. CITES II.	Not recommended
Australian Hobby Falco longipennis 2 subspecies F.l. hanieli, F.l. longipennis	F.l. hanieli - Lesser Sundas, from Lombok to Timor. F.l. longipennis - Australia and Tasmania; outside breeding season occurs N to New Guinea, New Britain and Moluccas.	NGT. CITES II. Population probably stable; has benefited from introduced prey. Eggshell thickness significantly reduced by DDT use (now ceased); local breeding depression likely in S agricultural areas.	Not recommended
New Zealand Falcon Falco novaeseelandiae	New Zealand, Stewart I, Auckland Is.	NGT. CITES II. Currently considered near-threatened. Population declined through habitat destruction, persecution and effects of DDT, but now stable at c. 3000-4500 breeding pairs.	Not recommended
Brown Falcon Falco berigora 3 subspecies F.b. novaeguineae, F.b. berigora, F.b. occidentalis	F.b. novaeguineae - C & E New Guinea and coastal N Australia. F.b. berigora - E, C & N Australia and Tasmania. F.b. occidentalis - SW & CW Australia.	NGT. CITES II.	Not recommended
Grey Falcon Falco hypoleucos	C & NW Australia	Rare. CITES II. Scarce and possibly declining; breeding zone has contracted to arid zone. Total population estimated at c. 1000 breeding pairs.	Not recommended
Black Falcon Falco subniger	C & E Australia.	NGT. CITES II.	Not recommended
Lanner Falcon Falco biarmicus 5 subspecies F.b. feldeggii, F.b. erlangeri,	F.b. feldeggii - S Italy and Sicily E to Armenia and Azerbaijan, then S to Lebanon. F.b. erlangeri - NW Africa, from Mauritania to Morocco	NGT. CITES II.	Phase Out

F.b. tanypterus, F.b. abyssinicus, F.b. biarmicus	and Tunisia. F.b. tanypterus - NE Africa, including Egypt and N Sudan, to Arabia, Israel and Iraq. F.b. abyssinicus - Senegal and Ghana E to Ethiopia and Somalia, and S to Uganda and N Zaire. F.b. biarmicus - Angola, S Zaire and Kenya S to South		
Laggar Falcon Falco jugger	Africa. Pakistan E throughout most of India and Nepal to Assam and N Burma; absent from extreme S India. Also occurs locally in S Afghanistan and possibly SE Iran.	NGT. CITES II. Uncommon to rare and local. Population declines noted in Pakistan and W India probably due to reduction of prey available as result of extensive cultivation.	Phase Out
Saker Falcon Falco cherrug 2 subspecies F.c. cherrug, F.c. milvipes	F.c. cherrug - C Europe E through SW Russia, Ukraine and Iran to R Yenisey and foothills of Altai; winters from Europe and NE Africa E to NW India. F.c. milvipes - SE Siberia, N Mongolia and N China S to W & C China; winters from Iran E to Nepal and NW India, Tibet and C China.	NGT. CITES II. Currently considered near-threatened.	Not recommended

Common Name		Status in Wild (from <u>Handbook</u>	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
Scientific Maine	Kange	5)	Recommendation
Gyrfalcon	Circumpolar, occupying Artic	NGT. CITES I. Currently	Phase Out
Falco rusticolus	regions of Eurasia, North	considered near-threatened.	
	America, Greenland and		
	Iceland; some birds move		
	farther S for winter.		
Prairie Falcon	SW Canada through W & WC	NGT. CITES II. Widely used in	Phase Out
Falco mexicanus	USA to N Mexico; winters to	falconry, with no apparent effect on	
	EC USA and NC Mexico.	population.	
Peregrine Falcon	F.p. tundrius - Arctic tundra of	NGT. CITES I.	Monitored
Falco peregrinus	North America, from Alaska to		Program
19 subspecies	Greenland.		
F.p. tundrius, F.p.	<i>F.p. anatum</i> - North America S		
anatum, F.p.	of tundra to N Mexico, except		
pealei, F.p.	NW Pacific Coast.		
cassini, F.p.	<i>F.p. pealei</i> - Coastal W North		
japonensis,	America from Washington N to		
F.p. furuitii, F.p.	W Alaska, and W through		
calidus,	Aleutian and Commander Is;		
F.p. peregrinus,	possibly also coastal Kamchatka		
F.p. brookei,	and Kuril Is.		
F.p. babylonicus,	<i>F.p. cassini</i> - W South		
F.p. pelegrinoides,	America, from Ecuador		
F.p. madens, F.p.	(locally) S through Bolivia and		
minor, F.p.	N Argentina to S Chile, Tierra		
radama,	del Fuego and Falkland Is.		

E : (E : toronomic NE Cit : C	1
F.p. peregrinator, F.p. japonensis - NE Siberia S	
F.p. ernesti, to Kamchatka and Japan (may	
F.p. nesiotes, F.p. not be race of coastal	
macropus, Kamchatka).	
F.p. Furuitii - Volcano Is and	
submelanogenys possibly Bonin Is.	
F.p. calidus - Tundra of	
Eurasia, from Lapland E to NE	
Siberia, roughly to region of R	
Yana and R Indigirka.	
<u> </u>	
F.p. peregrinus - Eurasia S of	
tundra and N of Pyrenees,	
Balkans and Himalayas, from	
British Is E to Amurland and	
Ussuriland in Russian Far East.	
F.p. brookei - S France, Spain	
and coastal N Africa E through	
Mediterranean to Caucasus.	
<i>F.p. babylonicus</i> - Asia, from E	
Iran to Mongolia.	
F.p. pelegrinoides - Canary Is E	
through inland N Africa to Iraq,	
and probably Iran.	
F.p. madens - Cape Verde Is.	
F.p. minor - Africa S of Sahara,	
and N into extreme S Morocco.	
F.p. radama - Madagascar and	
Comoro Is.	
F.p. peregrinator - Pakistan,	
India and Sri Lanka E to SE	
China.	
<i>F.p. ernesti</i> - Indonesia and	
Philippines E to New Guinea	
and Bismarck Archipelago.	
F.p. nesiotes - Vanuatu and	
New Caledonia (race uncertain)	
E to Fiji.	
F.p. macropus - Australia	
(except SW).	
F.p. submelanogenys - SW	
Australia.	
	Not recommended
Falco fasciinucha Uganda, Tanzania, Malawi, E considered near-threatened.	rvot recommended
Zambia, SW Mozambique and Extremely localized and easily	
Zimbabwe to NE South Africa. overlooked throughout most of its	
wide range, e.g. in Kenya, where	
not recently recorded from Taita	
(Teita) Hills, where originally	
collected.	

FAMILY TYTONINAE

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Greater Sooty Owl Tyto tenebricosa T.t. arfaki, T.t .tenebricosa	T.t. arfaki – New Guinea and Yapen I. T.t.tenebricosa - SE Australia	NGT. CITES II	Not recommended
Lesser Sooty Owl Tyto multipunctata	NE Queensland, from Cedar Bay S to Paluma and inland to Windsor, Atherton and Evelyn Tablelands	NGT. CITES II. Restricted range species. Currently considered near threatened.	Not recommended
Australian Masked Owl Tyto novaehollandiae T.t calabyi, T.n. melvillensis, T.n. galei, T.n. kimberli, T.n. novaehollandiae, T.n. castanops	T.t calabyi – S New Guinea, in S Trans-Fly region, from Merauke area to Tarara and Daru I. T.n. melvillensis – Melville I and Bathurst I. T.n. galei – NE Cape York Pennisula to NE Queensland T.n. kimberli – N Australia T.n. novaehollandiae – SW Western Australia E to Victoria and N to NE to Queensland. T.n. castanops – Tasmania and Marie I	NGT. CITES II	Not recommended
Golden Masked Owl Tyto aurantia	New Britain	Vulnerable. CITES II. Restricted range species. Considered rare with few field records and sightings.	Not recommended
Manua Masked Owl <i>Tyto manusi</i>	Manus I and Admiralty Is.	Vulnerable. CITES II. Restricted range species. No recent records.	Not recommended
Lesser Masked Owl Tyto sorocula T.s. cayelii, T.s. sororcula	T.s. cayelii – Buru, also Seram T.s. sororcula- Tanimbar Is.	NGT. CITES II. Restricted-range species.	Not recommended

Taliabu Masked	Taliabu, in Sula Is.	Vulnerable. CITES II. Restricted	Not recommended
Owl		range species. Presumed to be	
Tyto nigrobrunnea		scarce.	
Minahassa Masked	N & NC Sulawesi	NGT. CITES II. Restricted-range	Not recommended
Owl Tyto in avangatata		species.	
Tyto inexspectata Sulawesi Owl	<i>T.r. rosenbergii</i> – Sulawesi and	NGT. CITES II. Widespread but	Not recommended
Tyto rosenbergii	Sangihe	generally uncommon in Sulawesi.	Not recommended
T.r. rosenbergii,	<i>T.r. pelengensis</i> – Banggai Is.	generally uncommon in salawesi.	
T.r. pelengensis			
Common Barn Owl	North America, Europe, Africa,	NGT. CITES II. Status of many	Monitored
Tyto alba	South America, Australia,	populations uncertain particualry	Program
26 subspecies	Malaysia	those on islands. Locally common	
including:		in some areas and species	
T.a.alba,		expanding parts of it's range.	
T.a.delicatula, T.a. pratincola			
Ashy-faced Owl	<i>T.g.glaucops</i> – Hispaniola,	NGT. CITES II. Restricted range	Not recommended
Tyto glaucops	including Tortue I.	species.	Not recommended
T.g.glaucops, T.g.	T.g. nigrescens – Dominica	species.	
nigrescens, T.g.	<i>T.g. insularis</i> – St. Vincent,		
insularis	Bequia, Union, Carriacou and		
	Grenada.		
Madagascar Red	N & NE Madagascar	Endangered. CITES I.	Not recommended
Owl			
Tyto soumagnei	Comment to the decomposition	NCT CITECH	N.4
African Grass Owl	Cameroon highlands; Congo; N. Angola E to S Uganda and W	NGT. CITES II.	Not recommended
Tyto capensis	Kenya, W Tanzania and Zambia		
	to W Mozambique and E South Africa.		
Common Name	to W Mozambique and E South	Status in Wild (from <u>Handbook</u>	
Common Name Scientific Name	to W Mozambique and E South	to the Birds of the World vol. 2&	TAG
Scientific Name	to W Mozambique and E South Africa.	to the Birds of the World vol. 2& 5)	Recommendation
Scientific Name Eastern Grass Owl	to W Mozambique and E South Africa. Range T.l.longimembris – India, S	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	
Scientific Name Eastern Grass Owl Tyto longimembris	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar,	to the Birds of the World vol. 2& 5)	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris,	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is.,	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis,	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris,	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is.,	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l.	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota,	to W Mozambique and E South Africa. Range T.l.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.l. chinensis – SE China and Vietnam T.l. pithecops – Taiwan	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l.	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l.	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl	T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea P.b.saturatus – Sikkim & NE	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare	Recommendation
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius	T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea P.b.saturatus – Sikkim & NE India, N & C Myanmar,	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius P.b.saturatus, P.b.	T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea P.b.saturatus – Sikkim & NE	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea P.b.saturatus – Sikkim & NE India, N & C Myanmar, Thailand E to Vietnam and SE	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius P.b.saturatus, P.b. ripleyi, P.b.	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea P.b.saturatus – Sikkim & NE India, N & C Myanmar, Thailand E to Vietnam and SE China	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius P.b.saturatus, P.b. ripleyi, P.b. assimilis, P.b.	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea P.b. saturatus – Sikkim & NE India, N & C Myanmar, Thailand E to Vietnam and SE China P.b. ripleyi – SW India P.b. assimilis – C & S Sri Lanka	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius P.b.saturatus, P.b. ripleyi, P.b. assimilis, P.b. badius, P.b.	T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea T.I. papuensis –E. New Guinea P.b. saturatus – Sikkim & NE India, N & C Myanmar, Thailand E to Vietnam and SE China P.b. ripleyi – SW India P.b. assimilis – C & S Sri Lanka P.b. badius – Malay Peninsula	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius P.b.saturatus, P.b. ripleyi, P.b. assimilis, P.b. badius, P.b. arixuthus, P.b.	T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea T.I. papuensis –E. New Guinea P.b. saturatus – Sikkim & NE India, N & C Myanmar, Thailand E to Vietnam and SE China P.b. ripleyi – SW India P.b. assimilis – C & S Sri Lanka P.b. badius – Malay Peninsula and Greater Sundas	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius P.b.saturatus, P.b. ripleyi, P.b. assimilis, P.b. badius, P.b. arixuthus, P.b.	to W Mozambique and E South Africa. Range T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea P.b. saturatus – Sikkim & NE India, N & C Myanmar, Thailand E to Vietnam and SE China P.b. ripleyi – SW India P.b. assimilis – C & S Sri Lanka P.b. badius – Malay Peninsula and Greater Sundas P.b. arixuthus – Natuna Is.	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended
Eastern Grass Owl Tyto longimembris T.l.longimembris, T.l. chinensis, T.l. pithecops, T.l. amuaronota, T.l. baliem, T.l. papuensis Oriental Bay Owl Phodilus badius P.b.saturatus, P.b. ripleyi, P.b. assimilis, P.b. badius, P.b. arixuthus, P.b.	T.I.longimembris – India, S Nepal, Bangladesh, Myanmar, Sulawesi, Tukangbesi, Is., Flores, Sumba, and N, C & E Australia T.I. chinensis – SE China and Vietnam T.I. pithecops – Taiwan T.I. amuaronota – Philippines T.I. baliem – W New Guinea T.I. papuensis –E. New Guinea T.I. papuensis –E. New Guinea P.b. saturatus – Sikkim & NE India, N & C Myanmar, Thailand E to Vietnam and SE China P.b. ripleyi – SW India P.b. assimilis – C & S Sri Lanka P.b. badius – Malay Peninsula and Greater Sundas	to the Birds of the World vol. 2& 5) NGT. CITES II.Rare to very rare throughout most of range.	Recommendation Not recommended

Phodilus	Zaire.	range species. Rare and elusive.	
prigoginei			

FAMILY STRIGIDAE (TYPICAL OWLS)

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		5)	Recommendation
White-fronted	S Myanmar (Tenasserim), S	Vulnerable. CITES II. Described as	Not recommended
Scops-owl	Thailand and Malay Peninsula;	rare or very rare and declining	
Otus sagittatus	possibly Sumatra (status	throughout its range, but very	
	uncertain).	poorly known. Extensive lowland	
		deforestation considered greatest	
		threat to survival.	
Reddish Scops-owl	O.r. malayensis - S peninsular	NGT. CITES II. Rare throughout	Not recommended
Otus rufescens	Thailand and peninsular	range, and probably declining in	
2 subspecies	Malaysia.	most parts, but elusive and little	
O.r. malayensis,		known.	
O.r. rufescens	O.r. rufescens - Sumatra,		
0 1 0 1	Bangka, Java and Borneo	NOT OFFICE II	37
Sandy Scops-owl	O.i. icterorhynchus - Liberia,	NGT. CITES II. Appears to be rare	Not recommended
Otus	Ivory Coast and Ghana.	throughout its fragmented range;	
icterorhynchus	0:11 1 2	only 4 known specimens, 2 from	
2 subspecies	O.i. holerythrus - S Cameroon,	each of Ghana and Cameroon.	
O.i.	N Congo and N & E Zaire;	Assessment of status difficult,	
icterorhynchus, O.i. holerythrus	probably also N Gabon.	owing to its poorly documented distribution and biology.	
Sokoke Scops-owl	Sokoke-Arabuku Forest in SE	Vulnerable, CITES I. Restricted-	Not recommended
Otus ireneae	Kenya, and NE Tanzania	range species: present in Tanzania-	Not recommended
Olus trenede	(lowlands N of E Usambara	Malawi Mountains EBA and East	
	Mts).	African Coastal Forests EBA.	
	ivits).	Conservation efforts impeded by	
		lack of funding.	
Andaman Scops-	Andaman Is.	NGT. CITES II. Restricted-range	Not recommended
owl		species: present in Andaman	
Otus balli		Islands EBA. Currently considered	
		near-threatened.	
Flores Scops-owl	Flores I, in Lesser Sundas.	NGT. CITES II. Restricted-range	Not recommended
Otus alfredi		species: present in Northern Nusa	
		Tenggara EBA. True status	
		unknown, but almost certainly rare;	
		probably not listed as threatened	

		because true specific status	
Common Name		misunderstood. Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2& 5)	TAG Recommendation
Mountain Scops- owl Otus spilocephalus 8 subspecies O.s. huttoni, O.s. spilocephalus, O.s. latouchi, O.s. hambroecki, O.s. siamensis, O.s. vulpes, O.s. vandewateri, O.s. luciae	O.s. huttoni - N Pakistan E to C Nepal. O.s. spilocephalus - C Nepal E to Arunachal Pradesh and Myanmar. O.s. latouchi - N Thailand and Laos to SE China and Hainan. O.s. hambroecki - Taiwan. O.s. siamensis - S Thailand to S Vietnam. O.s. vulpes - Malay Peninsula. O.s. vandewateri - Sumatra.	NGT. CITES II. Fairly adaptable; fact that species will occupy areas of dense regenerating growth at disturbed forest edge should aid its survival.	Not recommended
Rajah Scops-owl Otus brookii 2 subspecies O.b. solokensis, O.b. brookii	O.s. luciae - Borneo O.b. solokensis - Sumatra. O.b. brookii - Borneo. Specimen collected in E Java (Ijen) assigned to this species, but identity disputed; may belong to another species of Otus.	NGT. CITES II. Restricted range species: present in Bornean Mountains EBA and Sumatra and Peninsular Malaysia EBA. Considered rare; possibly more widespread, but few observations within its known range.	Not recommended
Javan Scops-owl Otus angelinae	W Java.	Vulnerable. CITES II. Restricted range species: present in Java and Bali Forests EBA.	Not recommended
Mentawai Scops- owl Otus mentawi	Mentawai Is (Siberut to S Pagai), off W Sumatra.	NGT. CITES II. Status poorly known; appears to be rare and rather patchily distributed, but possibly locally common.	Not recommended
Indian Scops-owl Otus bakkamoena 5 subspecies O.b. plumipes, O.b. deserticolor, O.b. gangeticus, O.b. Marathae, O.b. bakkamoena	O.b. plumipes - W Himalayas, from N Pakistan E to Nepal border. O.b. deserticolor - S Pakistan; possibly SE Iran; old record from Oman probably erroneous. O.b. gangeticus - NW India to lowland Nepal. O.b. marathae - C India, E to about S West Bengal. O.b. bakkamoena - SW & SE India and Sri Lanka.	NGT. CITES II.	Not recommended
Collared Scopsowl Otus lettia 5 subspecies O.l. erythrocampe, O.l. ussuriensis, O.l. glabripes, O.l. umbratilis	O.l. lettia - E Nepal, E India (West Bengal) and Bangladesh, E to Assam, Myanmar, Thailand (except S peninsula) and Indochina. O.l. erythrocampe - SE China. O.l. ussuriensis - Sakhalin, Ussuriland and NE China. O.l. glabripes - Taiwan. O.l. umbratilis - Hainan I.	NGT. CITES II.	Not recommended
Sunda Scops-owl Otus lempiji 6 subspecies	O.I. condorensis - S peninsular Thailand below Isthmus of Kra. O.I. lempiji - Malay Peninsula	NGT. CITES II. Would appear to benefit from conversion of forested land to agricultural uses, enabling	Not recommended

O.l. condorensis, O.l. lempiji, O.l. cnephaeus, O.l. hypnodes, O.l. lemurum, O.l. kangeanus	(except S), S Sumatra, Bangka, Belitung, Java, Bali, N Natuna Is, Borneo (except N). O.l. cnephaeus - S Malay Peninsula. O.l. hypnodes - N & C Sumatra. O.l. lemurum - N Borneo. O.l. kangeanus - Kangean Is.	possible range expansion.	Not recommended
Japanese Scopsowl Otus semitorques 2 subspecies O.s. semitorques, O.s. pryeri	(Urup S to Kunashir), and Hokkaido S to Yakushima, including Sado, Tsushima, Goto Is and Yakushima. O.s. pryeri - S Izu Is (Hachijo) and S Ryukyu Is .	NGT. CITES II. Race <i>preyeri</i> poorly known; although reported as abundant in Iriomote, this not substantiated by later observations. No obvious threats, and appears able to live in proximity to man.	Not recommended
Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& 5)	TAG Recommendation
Palawan Scops- owl Otus fuliginosus	Palawan I, in SW Philippines.	Vulnerable. CITES II. Restricted- range species: present in Palawan EBA. Said to be very rare.	Not recommended
Philippine Scopsowl Otus megalotis 4 subspecies O.m. megalotis, O.m. everetti, O.m. nigrorum, O.m. boholensis	O.m. megalotis - Luzon, Marinduque and Catanduanes. O.m. everetti - Samar, Biliran, Leyte, Mindanao and Basilan. O.m. nigrorum - Negros. O.m. boholensis - Bohol.	NGT. CITES II. Few reliable data. Reports vary from probably endangered to widely distributed (on Mt Isarog), but very little is known about this species.	Not recommended
Wallace's Scops- owl Otus silvicola	Sumbawa and Flores, in Lesser Sundas	NGT. CITES II. Restricted-range species. Currently considered near-threatened.	Not recommended
Mindanao Scops- owl Otus mirus	Mindanao I, in S Philippines.	Vulnerable. CITES II. Restricted- range species	Not recommended
Luzon Scops-owl Otus longicornis Mindoro Scops-	Luzon, in N Philippines. Mindoro, in NC Philippines.	Vulnerable. CITES II. Restricted- range species. Vulnerable. CITES II. Restricted-	Not recommended Not recommended
owl Otus mindorensis		range species	
Pallid Scops-owl Otus brucei 4 subspecies O.b. brucei, O.b. obsoletus, O.b. semenowi, O.b. exiguus	O.b. brucei - E Aral Sea to Kirgizia and Tadjikistan. O.b. obsoletus - S Turkey, N Syria, N Iraq, Turkmeniya, Uzbekistan and N Afghanistan. O.b. semenowi - S Tadjikistan and W China (E to C Tarim Basin) S to E Afghanistan and N Pakistan. O.b. exiguus - Israel (extinct as breeder), C & E Iraq, S Iran, Oman, S Afghanistan, W Pakistan.	NGT. CITES II. Status not well known. May be reasonably common in much of range, but few data. No known threats.	Not recommended

African Scops-owl	O.s. senegalensis - From	NGT. CITES II. Secretive habits	Not recommended
Otus senegalensis	Senegal and Sierra Leone E to	make any accurate assessment of	
5 subspecies	NW Ethiopia and Somalia, S	numbers difficult.	
O.s. senegalensis,	(except in SE Kenya) to SE		
O.s. pamelae,	South Africa.		
O.s. socotranus,	O.s. pamelae - S Saudi Arabia.		
O.s. feae, O.s.	O.s. socotranus - Socotra I.		
nivosus	O.s. feae - Annobon I (Pagalu),		
	in S Gulf of Guinea.		
	O.s. nivosus - SE Kenya (lower		
	Tana R to Lali Hills).		
Eurasian Scops-	O.s. scops - France, Italy and C	NGT. CITES II.	Not recommended
owl	Mediterranean islands E to		
Otus scops	Volga R, S to N Greece, N		
6 subspecies	Turkey and Transcaucasia;		
O.s. scops, O.s.	intergrades with <i>pulchellus</i> .		
pulchellus,	O.s. pulchellus - Volga R E to		
O.s. mallorcae,	L Baikal, S to Altai and Tien		
O.s. cycladum,	Shan.		
O.s. cyprius, O.s.	O.s. mallorcae - Iberia, Balearic		
turanicus	Is, NW Africa (NC Morocco to		
	Tunisia).		
	<i>O.s. cycladum</i> - S Greece and S		
	Asia Minor, S to C Israel and		
	Jordan.		
	O.s. cyprius - Cyprus.		
	O.s. turanicus - Iraq and Iran		
	(and perhaps this race SE		
	Turkey) E to NW Pakistan.		

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
Scientific (value	Runge	5)	Recommendation
Oriental Scops-owl	O.s. sunia - N Pakistan E to	NGT. CITES II. Varies in	Not recommended
Otus sunia	Bangladesh, and N India.	abundance regionally: scarce and	
7 subspecies	O.s. rufipennis - S India.	very local in Pakistan, and scarece	
O.s. sunia, O.s.	O.s. leggei - Sri Lanka.	but more widespread in Sri Lanka,	
rufipennis, O.s.	O.s. modestus - Assam (S to	but fairly common in most of	
leggei,	Brahmaputra R), Myanmar, N	Indian Subcontinent; uncommon in	
O.s. modestus, O.s.	& W Thailand, Indochina; also	Thailand; uncommon in Japan, but	
malayanus,	Andamans and C Nicobars	said to be commonest strigid in SE	
O.s. stictonotus,	(Camorta).	Siberia.	
O.s. japonicus	O.s. malayanus - S China		
	(Yunnan E to Guangdong).		
	O.s. stictonotus - SE Siberia,		
	Sakhalin, NE China, N Korea.		
	O.s. japonicus - Japan.		
Flammulated Owl	Breeds from SW Canada (SC	NGT. CITES II. Common in North	Not recommended
Otus flammeolus	British Columbia) S to NW &	America, but considered sensitive	
	SW USA and NE, W & C	in USA and vulnerable in Canada.	
	Mexico (and E in highlands to S		
	Puebla, and NE Oaxaca).		
	Winters to C & S Mexico and		
	Guatemala, possibly El		
	Salvador.		

Muluccan Scopsowl Otus magicus 7 subspecies O.m. morotensis, O.m. leucospilus, O.m. obira, O.m. magicus, O.m. bouruensis, O.m. albiventris, O.m. tempestatis	O.m. morotensis - Morotai, Ternate. O.m. leucospilus - Halmahera, Kasiruta, Bacan. O.m. obira - Obi Is. O.m. magicus - Seram, Ambon. O.m. bouruensis - Buru. O.m. albiventris - Lombok, Sumbawa, Flores, Lomblen. O.m. tempestatis - Wetar.	NGT. CITES II. Considered common on Buru and uncommon on Sumbawa; no data on status from rest of range. Forest destruction probably a threat in the long term.	Not recommended
Mantanani Scopsowl Otus mantananensis 4 subspecies O.m. romblonis, O.m. cuyensis, O.m. mantananensis, O.m. sibutuensis	O.m. romblonis - Banton, Sibuyan, Romblon, Tablas, Tres Reyes and Semirara, in C Philippines. O.m. cuyensis - S Calamian Is (Dicabaito, Linapacan) and Cuyo I. O.m. mantananensis - Mantanani I, off N Borneo, and islands off S coast of Palawan. O.m. sibutuensis - Sibutu and Tumindao, in SW Sulu Is.	NGT. CITES II. Restricted-range species.	Not recommended
Ryukyu Scops-owl Otus elegans 4 subspecies O.e. elegans, O.e. interpositus, O.e. botelensis, O.e. calayensis	O.e. elegans - Throughout Ryukyu Is (Nansei Shoto), S Japan. O.e. interpositus - Daito Is (Minami-daito-jima). O.e. botelensis - Lanyu I, off SE Taiwan. O.e. calayensis - Batan Is, Sabtang and Calayan, off N Philippines.	NGT. CITES II. Restricted-range species.	Not recommended
Sulawesi Scopsowl Otus manadensis 5 subspecies O.m. siaoensis, O.m. manadensis, O.m. mendeni, O.m. sulaensis, O.m. kalidupae	O.m. siaoensis - Siau I, N of Sulawesi. O.m. manadensis - Sulawesi. O.m. mendeni - Banggai Is (Peleng, perhaps also Labobo). O.m. sulaensis - Sula Is (Taliabu, Seho, Mangole, Sanana). O.m. kalidupae - Tukangbesi Is (Kaledupa).	NGT. CITES II. Two recent searches for <i>siaoensis</i> , known only from the type specimen, unsuccessful, and forest on Siau almost gone; no data on other populations, but all are poorly known and unlikely to be common. Main threat probably forest destruction.	Not recommended
Sangihe Scops-owl Otus collari	Sangihe I, N of Sulawesi.	NGT. CITES II.	Not recommended
Biak Scops-owl Otus beccarii	Biak I, off NW New Guinea (Irian Jaya).	NGT. CITES II. Very poorly known	Not recommended

Common Name		Status in Wild (from <u>Handbook</u>	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Western Screech	Coast from SE Alaska & NW	NGT. CITES II Fairly common to	Phase Out
Owl	Canada. SW USA, Baja	locally common.	
Otus kennicottii	California, Mexico		
O.k.kennicotti,			
O.k.bendirei, O.k.			

Sw Mexico, from S Jalisco and collina to W Guerrero.	1 1	T	T	<u> </u>
Summens Solution Ok.	aikeni, O.k.			
SW Mexico, from S Jalisco and colima to W Guerrero.				
Balsas Screechowl Olus seductus Pacific Screechowl Olus cooperi Olus C. Lambi - S Mexico (Pacific slope of Oaxaca). Olus cooperi Olus C. Lambi O. C. Cooperi - Extreme SE Mexico (Chiapas) to NW Costa Rica (Guanacaste). Eastern Screechowl Olus asio O. a. maxwelliae, O. a. maxwelliae - SC Canada and NE USA. O. a. maxwelliae, O. a. maxwelliae, O. a. maxwelliae - SC Canada and NE USA (S to North Carolina). O. a. maxwelliae, O. a. maxwelliae, O. a. maxwelliae - SC Canada and NE USA (S to North Carolina). O. a. maxwelliae, O. a. saio O. Alahoma it to South Carolna and Georgia. O. a. maxwelliae, O. a. mocallii O. a. mccallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. maxwelliae, O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. maxwelliae, O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. maxwelliae, O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. maxwelliae, O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. maxwelliae, O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S Texas to NE Mexico (Sonora and Chiapas). O. a. mocallii - S T				
Balsas Screech- owl Otus seductus Pacific Screech- owl Otus seductus Pacific Screech- owl Otus cooperi Subspecies O.c. lambi - S Mexico (Pacific subspecies O.c. chiapensis - SE Mexico O.c. da maxwelliae - O.c. maxwelliae - SC Canada and NC USA. O.a. maxwelliae - SC Canada and NC USA. O.a. maxwelliae - O.a. max	l -			
Balsas Screech- owl Olus seductus	'			
Otts seductus Colima to W Guerrero. Colima to W Guerrero. Colima to W Guerrero. Colima to W Guerrero. Common to common, but little information available on satus and ecology. Available habitat appears to be decreasing. Currently being considered as candidate for inclusion in Red Data Book. NGT. CITES II. Considered fairly common to common in most of range, but no information on population size. Colimasis. Colimas. Colimasis. Colimas.				
Ditas seductus	Balsas Screech-	SW Mexico, from S Jalisco and	NGT. CITES II. Described as fairly	Not recommended
Pacific Screech- owl Otts cooperi Eastern Screech- owl Otts Saibspecies O.a. maxwelliae,		Colima to W Guerrero.		
Pacific Screech- owl Ons cooperi 3 subspecies C. c. lambi, O. c. Chiapensis, O. c. Cooperi Costa Rica (Guancaste). Eastern Screech- owl Olus asio O. a. maevius, O. a. asio, O. a. hasbroucki, O. a. sloridanus, O. a. macvelliae O. a. macvilii Florida O. a. macvallii O. a. mecallii Whiskered Screech-owl Olus trichopsis 3 subspecies O. a. mecallii O.	Otus seductus		information available on status and	
Pacific Screechowl Ottus cooperi 3 subspecies O.e. lambi - S Mexico (Pacific slope of Oaxaca). Ottus cooperi 3 subspecies O.e. lambi, O.e. chiapensis - SE Mexico (Chiapas). O.e. cooperi - Extreme SE Mexico (Chiapas). O.e. cooperi - Extreme SE Mexico (S Chiapas) to NW Costa Rica (Guanacaste). Eastern Screechowl Ottus asio O.a. maxwelliae, O.a. maxwelliae, O.a. maxwelliae, O.a. naevius - SE Canada and Subspecies O.a. maxwelliae, O.a. naevius - O.a. maxwelliae, O.a. naevius - SE Canada and NC USA. Anabroucki, O.a. floridamus - Louisiana to Florida. O.a. mccallii - S Texas to NE Mexico (S Chiapas) to NW Mexico. Whiskered Screech-owl Ottus trichopsis 3 subspecies O.t. trichopsis, O.t. trichopsis - Highlands of C Mus trichopsis 3 subspecies O.t. aspersus, O.t. trichopsis, O.t. trich			ecology. Available habitat appears	
Pacific Screechowl C. Lambi - S Mexico (Pacific Sope of Oaxaca). Ous cooperi 3 subspecies (Chiapas). Eastern Screechowl Onus asio 6 subspecies O.a. maxwelliae, O.a. maxwellia			to be decreasing. Currently being	
Pacific Screechowl Ottus cooperi Stope of Oaxaca). Ottus cooperi Subspecies O.c. lambi, O.c. chiapensis - SE Mexico (Chiapas) O.c. cooperi - Extreme SE Chiapensis, O.c. cooperi Eastern Screechowl Ottus asio O.a. maxwelliae, O.a			considered as candidate for	
owl Ous cooperi 3 subspecies O.e. lambi, O.e. chiapensis - SE Mexico Osta Rica (Guanacaste). Eastern Screechowl Otus asio O.a. maevius - SE Canada and NE USA (S to North Carolina). O.a. maevius, O.a. asio, O.a. hasbroucki, O.a. moxwelliae, O.a. mecallii Ota mecallii Ota subspecies O.a. mecallii			inclusion in Red Data Book.	
Solpe of Oaxaca), Common to common in most of range, but no information on population size.	Pacific Screech-	O.c. lambi - S Mexico (Pacific	NGT. CITES II. Considered fairly	Not recommended
3 subspecies O.c. lambi, O.c. cooperi - Extreme SE Ochiapensis, O.c. cooperi - Extreme SE Ochiapensis to NW Costa Rica (Guanacaste). D.a. macwelliae - SC Canada and NC USA. O.a. naevius - SE Canada and NE USA (S to North Carolina). O.a. naevius, O.a. asio, O.a. Alabronucki - C Oklahoma to Florida. O.a. maccallii - S Texas to NE Mexico. Whiskered Screech-owl Otus trichopsis 3 subspecies O.f. aspersus, O.f. trichopsis, O.f. mesamericanus Tropical Screech- owl Otus choliba 9 subspecies O.c. luctisomus, O.c. duidae - O.c. Oc. duidae - O.c. crucigerus, O.c. duidae - Duida Mts in S Venezuela. O.c. crucigerus, O.c. suturutus, O.c. choliba - S Brazil (S Mato	owl	slope of Oaxaca).	common to common in most of	
3 subspecies O.c. lambi, O.c. cooperi - Extreme SE Ochiapensis, O.c. cooperi - Extreme SE Ochiapensis to NW Costa Rica (Guanacaste). D.a. macwelliae - SC Canada and NC USA. O.a. naevius - SE Canada and NE USA (S to North Carolina). O.a. naevius, O.a. asio, O.a. Alabronucki - C Oklahoma to Florida. O.a. maccallii - S Texas to NE Mexico. Whiskered Screech-owl Otus trichopsis 3 subspecies O.f. aspersus, O.f. trichopsis, O.f. mesamericanus Tropical Screech- owl Otus choliba 9 subspecies O.c. luctisomus, O.c. duidae - O.c. Oc. duidae - O.c. crucigerus, O.c. duidae - Duida Mts in S Venezuela. O.c. crucigerus, O.c. suturutus, O.c. choliba - S Brazil (S Mato	Otus cooperi		range, but no information on	
O.c. lambi, O.c. chiapensis, O.c. cooperi - Extreme SE Mexico (S Chiapas) to NW cooperi - Costa Rica (Guanacaste). Eastern Screechowl Offus asio Osunt Carolina and NC USA. O.a. naevius - SE Canada and NC USA. O.a. naevius - SE Arizona to N MCT. CITES II. Population or trends little known, but clearly dependent on the future of fairly dense montane forest within its range. Tropical Screechowl Chiapas) to NC Nicaragua. O.c. naericarus - SE Arizona to N MCT. CITES II. Widely distributed and rather common. Little is known, ho				
Chiapensis, O.c. Cooperi	-			
Costa Rica (Guanacaste).	· ·			
Eastern Screechowl Onus asio 6 subspecies O.a. maxwelliae, O.a. naevius - SE Canada and NE USA (S to North Carolina). O.a. naevius, O.a. asio - Oklahoma E to South Carolna and Georgia. O.a. macollii - S Texas to NE Mexico. Whiskered Screech-owl Otta trichopsis 3 subspecies O.t. aspersus, O.t. trichopsis, O.t. mesamericanus Tropical Screechowl Otta tropical Screechowl	1			
owl Otus asio 6 subspecies O.a. maevius, O.a. asio, O.a. hasbroucki, O.a. floridanus, O.a. mecallii Otus trichopsis 3 subspecies O.t. aspersus, O.t. mesamericanus Tropical Screechowl Otts richopsis, O.t. mesamericanus Tropical Screechowl Otts choliba 9 subspecies O.c. ductisomus, O.c. margaritae, O.c. choliba, O.c. Wetmorei, O.c. uruguaiensis and NC USA. O.a. naevius - SE Canada and NE Brazil on Nature (Store) NE USA (S to North Carolina). O.a. asio - Oklahoma E to South Carolna and Georgia. O.a. hasbroucki - C Oklahoma to Texas. O.a. floridanus - Louisiana to Florida. O.a. mecallii - S Texas to NE Mexico (Sonora and Chihuahua). O.t. trichopsis - Highlands of C Mexico (ffom about Durango S to Veracua, Oaxaca and Chiapas). O.t. mesamericanus - SE Mexico (Chiapas) to NC Nicaragua. Tropical Screechowl O.c. duidae, O.c. crucigerus, O.c. duidae, O.c. crucigerus, O.c. choliba, O.c. wetmorei, O.c. uruguaiensis		,	NGT. CITES II.	Phase Out
6 subspecies O.a. maxwelliae, O.a. naevius, O.a. asio, O.a. hasbroucki, O.a. floridanus, O.a. mccallii Whiskered Screech-owl Otus trichopsis 3 subspecies O.t. aspersus, O.t. mesamericanus Tropical Screechowl Otus choliba 9 subspecies O.c. luctisomus, O.c. duidae, O.c. C.c. duidae, O.c. C.c. duidae, O.c. crucigerus, O.c. duidae, O.c. wetmorei, O.c. uruguaiensis NE USA (S to North Carolina). O.a. asio - Oklahoma E to O.a. hasbroucki - C Oklahoma to Texas. O.a. floridanus O.a. hasbroucki - C Oklahoma to Texas. O.a. floridanus - Louisiana to Florida. O.a. mccallii O.a. asio - Oklahoma E to O.a. lucisiana to Florida O.a. floridanus O.a.	owl	and NC USA.		
6 subspecies O.a. maxwelliae, O.a. naevius, O.a. asio, O.a. hasbroucki, O.a. floridanus, O.a. mccallii Whiskered Screech-owl Otus trichopsis 3 subspecies O.t. aspersus, O.t. mesamericanus Tropical Screechowl Otus choliba 9 subspecies O.c. luctisomus, O.c. duidae, O.c. C.c. duidae, O.c. C.c. duidae, O.c. crucigerus, O.c. duidae, O.c. wetmorei, O.c. uruguaiensis NE USA (S to North Carolina). O.a. asio - Oklahoma E to O.a. hasbroucki - C Oklahoma to Texas. O.a. floridanus O.a. hasbroucki - C Oklahoma to Texas. O.a. floridanus - Louisiana to Florida. O.a. mccallii O.a. asio - Oklahoma E to O.a. lucisiana to Florida O.a. floridanus O.a.	Otus asio			
O.a. maxwelliae, O.a. naevius, O.a. asio - Oklahoma E to South Carolna and Georgia. Oa. hasbroucki, O.a. floridanus, O.a. mccallii - S Texas to NE Mexico. Whiskered Screech-owl Otts trichopsis 3 subspecies O.t. aspersus, O.t. trichopsis, O.t. trichopsis, O.t. mesamericanus Tropical Screech-owl Otts choliba 9 subspecies O.c. luctisomus, O.c. duidae, O.c. duidae, O.c. duidae, O.c. crucigerus, O.c. duidae, O.c. crucigerus, O.c. choliba, O.c. suturutus, O.c. duidae, O.c. vetmorei, O.c. uruguaiensis O.a. asio - Oklahoma E to South Carolna and Georgia. Oa. hasbroucki - C Oklahoma to Texas. Oa. hababoucki - C Oklahoma to Texas. Oa. hasbroucki - C Oklahoma to Texas. Oa. hababoucki - C Oklahoma to Texas to NE Mexico (Sonora and Chipania) - Oa. hacallii - S Texas to NE Mexico (Sonora and Chipania) - Oa. texasara - C Oaxaca and Chipania - Oaxaca and Chipan				
South Carolna and Georgia. South Carolna and Georgia. O.a. hasbroucki, O.a. hasbroucki - C Oklahoma to Texas. O.a. mecallii O.a. mecallii - S Texas to NE Mexico.		,		
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9 subspecies O.c. luctisomus, O.c. margaritae - Margarita I, off N Venezuela. O.c. duidae, O.c. crucigerus, O.c. suturutus, O.c. suturutus, O.c. decussatus, O.c. choliba, O.c. wetmorei, O.c. uruguaiensis O.c. margaritae - Margarita I, off N Venezuela. O.c. duidae - Duida Mts in S Venezuela. O.c. cloombia and E Peru across to Venezuela, Trinidad, the Guianas and NE Brazil. O.c. suturutus - Bolivia. O.c. decussatus - C & E Brazil. O.c. choliba - S Brazil (S Mato		_		
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O.c. margaritae, O.c. duidae - Duida Mts in S Venezuela. O.c. suturutus, O.c. decussatus, O.c. choliba, O.c. wetmorei, O.c. uruguaiensis O.c. duidae - Duida Mts in S Venezuela O.c. cloombia and E Peru across to Venezuela, Trinidad, the Guianas and NE Brazil. O.c. suturutus - Bolivia. O.c. decussatus - C & E Brazil. O.c. choliba - S Brazil (S Mato				
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O.c. choliba - S Brazil (S Mato	· ·			
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O10550, Sao I auto) to E		Grosso, São Paulo) to E		
L Grosso Não Paulo) to E	wetmorei,	O.c. suturutus - Bolivia. O.c. decussatus - C & E Brazil. O.c. choliba - S Brazil (S Mato		

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Koepcke's Screech-owl Otus koepckeae	Paraguay. O.c. wetmorei - W Paraguay and N Argentina (S to Mendoza, N Buenos Aires and N Río Negro). O.c. uruguaiensis - NE Argentina, SE Brazil (Santa Catarina, Rio Grande do Sul) and Uruguay. NW Peru (probably from around Amazonas, and Ancash S to Lima, possibly farther S, to Ayacucho or beyond); apparently also WC Bolivia (to La Paz). Distributional limits	NGT. CITES II. Very poorly known; no information on numerical status, ecology or biology. Warrants classification as Data-deficient.	Not recommended
Common Name Scientific Name	very imperfectly known. Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Peruvian Screechowl Otus roboratus 2 subspecies O.r. pacificus, O.r. roboratus	O.r. pacificus - SW Ecuador and extreme NW Peru (S to Lambayeque). O.r. roboratus - Extreme S Ecuador and NW Peru between W & C Andes (drainage of R Chinchipe and R Marañón).	NGT. CITES II. Can be very common locally, but overall rare and possibly vulnerable; both N and S limits of distribution, however, uncertain.	Not recommended
Bare-shanked Screech-owl Otus clarkii	Costa Rica S to extreme NW Colombia.	NGT. CITES II. Restricted-range speciesConsidered uncommon; little known about population level.	Not recommended
Bearded Screech- owl Otus barbarus	Highlands of S Mexico (Chiapas) and N Guatemala.	NGT. CITES II. Restricted-range species; present in North Central American Highlands EBA. Currently considered Nearthreatened. Considered fairly common but very local. Population level unknown, but possibly decreasing	Not recommended
Rufescent Screechowl Otus ingens 2 subspecies O.i. venezuelanus, O.i. ingens	O.i. venezuelanus - N Colombia and NW Venezuela. O.i. ingens - Andes from NE Ecuador to WC Bolivia.	NGT. CITES II. Status is uncertain, and species little known; may be rare, unless overlooked.	Not recommended
Columbian Screech-owl Otus columbianus	W slopes of Andes from WC Colombia to NW Ecuador.	NGT. CITES II. Restricted-range species. Currently considered Near-threatened. Status uncertain, and species little known; may be rare. Forest destruction probably a threat, at least locally.	Not recommended
Cinnamon Screech-owl Otus petersoni	Cordillera del Cutucú in SE Ecuador S to La Peca region in NW Peru.	NGT. CITES II. Restricted-range species. Very poorly known, and no information on numbers; described as probably rare. Destruction of forest habitat probably a long-term threat.	Not recommended
Cloudforest	C & S Peru in Pasco (Cordillera	NGT. CITES II. Restricted-range	Not recommended

Screech-owl	Yanachaga) and Cuzco	species: present in Peruvian East	
Otus marshalli	(Cordillera Vilcabamba).	Andean Foothills EBA. Poorly	
		known.	
Tawn-bellied	O.w. watsonii - Lowlands from	NGT. CITES II. Status uncertain,	Not recommended
Screech-owl	E Colombia S to NE Peru and E	and species poorly known	
Otus watsonii	(N of R Amazon) to Surinam		
2 subspecies	and Amazonian Brazil.		
O.w. watsonii,	O.w. usta - e Peru and S		
O.w. usta	Amazonian Brazil S to lowland		
	forest of N Bolivia and N Mato		
	Grosso.		
Guatemalan	O.g. tomlini - NW Mexico (S	NGT. CITES II. Little information	Not recommended
Screech-owl	Sonora and SW Chihuahua S to	available; appears to be not rare	
Otus guatemalae	Sinaloa).	locally. Populations have probably	
7 subspecies	O.g. hastatus - SW Sinaloa to	declined as a result of forest	
O.g. tomlini, O.g.	Oaxaca.	destruction. Habitat loss a threat, at	
hastatus, O.g.	O.g. cassini - E Mexico (S	least in long term.	
cassini,	Tamaulipas and N Veracruz).		
O.g. fuscus, O.g.	O.g. fuscus - Veracruz.		
thompsoni,	O.g. thompsoni - Yucatán		
O.g. guatemalae,	Peninsula and Cozumel I.		
O.g. dacrysistactus	O.g. guatemalae - SE Mexico		
	(S Veracruz and NE Oaxaca) to		
	Honduras.		
	O.g. dacrysistactus - N		
	Nicaragua.		
Vermiculated	O.v. vermiculatus - NE Costa	NGT. CITES II. Needs almost	Not recommended
Screech-owl	Rica to NW Colombia, N	solid forest. Very little information;	
Otus vermiculatus	Venezuela.	possibly not rare locally. Forest	
3 subspecies	O.v. roraimae - S Venezuela	destruction a threat, at least in long	
O.v. vermiculatus,	and N Brazil (mountain regions	term.	
O.v. roraimae,	of Roraima, Duida and		
O.v. napensis	Neblina).		
	O.v. napensis - E Ecuador to		
	Peru, and N Bolivia.		

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Hoy's Screech-owl Otus hoyi	Mountains of S Bolivia (S from Cochabamba) and NW Argentina (S to Tucumán, possibly to Catamarca).	NGT. CITES II	Not recommended
Long-tufted Screech-owl Otus sanctaecatarinae	SE Brazil (Paraná, Santa Catarina, Rio Grande do Sul), NE Argentina (Misiones) and Uruguay.	NGT. CITES II. Generally overlooked, especially as a result of confusion with <i>O. atricapillus</i> . Loss of habitat through overgrazing, burning and treefelling represents greatest threat to species.	Not recommended
Variable Screechowl Otus atricapillus	SE Brazil (S Bahia and Goiás S to Santa Catarina), SE Paraguay and extreme NE Argentina (N Misiones).	NGT. CITES II. Species should be monitored because of the scale of habitat loss in its range; it seems to require fairly large areas of forest, and may not be able to survive in small remnant forest reserves.	Not recommended
Puerto Rican	O.n. nudipes - Puerto Rico.	NTG. CITES II. Restricted-range	Not recommended

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Screech-owl	<i>O.n. newtoni</i> - Vieques I off E	species: present in Pureto Rico and	
Otus nudipes	Puerto Rico (1 record, probably	the Virgin Islands EBA. Race	
2 subspecies	extinct), and unconfirmed report	<i>newtoni</i> extremely rare, possibly	
O.n. nudipes, O.n.	from nearby Culebra I; also	extinct.	
newtoni	Virgin Is (St Thomas, St John,		
newtoni	Tortola, Virgin Gorda, St Croix,		
7771 '4 41 4 1	probably Guana I).	NOT OFFICE B. 1.1. 1.4	NT / 1 1
White-throated	O.a. obscurus - Sierra de Perijá,	NGT. CITES II. Poorly known, but	Not recommended
Screech-owl	in NW Venezuela.	perhaps often overlooked;	
Otus albogularis	<i>O.a. meridensis</i> - Andes of W	probably common. Conservation	
6 subspecies	Venezuela.	priority considered low to medium.	
O.a. obscurus,	O.a. macabrum - C & W Andes		
O.a. meridensis,	from Colombia and Ecuador S		
O.a. macabrum,	to N Peru.		
O.a. albogularis,	O.a. albogularis - E Andes of		
O.a. aequatorialis,	Colombia and N Ecuador.		
O.a. remotus	O.a. aequatorialis - E Ecuador.		
O.a. remotas	O.a. remotus - E Andes from		
	Peru S to C Bolivia		
D 1 0 1	(Cochabamba).	NOT CITED II D	37 . 1.1
Palau Owl	Palau Is (Babelthuap, Koror,	NGT. CITES II. Restricted-range	Not recommended
Pyrroglaux	Peleliu and Angaur).	species: present in Palau EBA.	
podarginus		Current status uncertain.	
Cuban Screech-	G.l. exsul - W Cuba and I of	NGT. CITES II. Considered fairly	Not recommended
owl	Pines.	common or common. Not well	
Gymnoglaux	G.l. lawrencii - C & E Cuba.	known, however, and more	
lawrencii		information needed on species'	
2 subspecies		ecology and exact status.	
G.l. exsul, G.l.			
lawrencii			
Northern White-	Senegambia E to Somalia, S to	NGT. CITES II. * Genus merged	Phase Out
faced Owl	N Zaire, N Uganda and C	with Otus	Thase Out
	_ · · · · · · · · · · · · · · · · · · ·	with Otus	
Ptilopsis leucotis	Kenya.	NOT OFFICE I & C	DI O
Southern White-	SE Gabon, C Congo, S Zaire, S	NGT. CITES II. * Genus merged	Phase Out
faced Owl	Uganda and SW Kenya, S to S	with Otus and species split	
Ptilopsis granti	Namibia, N Cape Province and		
	Natal.		
Giant Scops-owl	S Philippines: Dinagat, Siargao	Endangered. CITES I. Restricted-	Not recommended
Mimizuku gurneyi	and Mindanao; report of former	range species: present in Mindanao	
	presence on Marinduque not	and Eastern Visayas EBA. Appears	
	confirmed.	to be rare in most of range, and	
		thought to be a species that occurs	
		at naturally low densities. Rapidly	
		declining as a result of habitat	
		destruction.	
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Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Great Horned Owl Bubo virginianus 12 subspecies	North, Central and South America	NGT. CITES II. Widespread, but densities low; few population estimates. Population levels closely	Monitored Program
B.b. lagophonus, B.v. saturatus, B.v. pacificus, B.v. elachistus,		associated with prey availability:	

B.v. subarcticus,			
B.v. pallescens,			
B.v. heterocnemis,			
B.v. virginianus,			
B.v. mayensis, B.v.			
mesembrinus,			
B.v. nigrescens,			
B.v. nacurutu			
	From C Peru, W Bolivia and W	NGT. CITES II.	Not recommended
Magellanic Horned		NGI. CITES II.	Not recommended
Owl	Argentina, S to Tierra del Fuego		
Bubo magellanicus	and Cape Horn.	Non orman v	
Eurasian Eagle-	B.b. hispanus - Iberian	NGT. CITES II. Uncommon to	Yellow SSP
owl	Peninsula; formerly also Atlas	scarce or rare throughout range.	
Bubo bubo	Mts in NW Africa (probably		
14 subspecies	extinct).		
B.b. hispanus, B.b.	B.b. bubo - Europe from N		
bubo, B.b.	Spain and Scandinavia E to W		
ruthenus,	Russia (E to about Gor'kiy).		
B.b. interpositus,	B.b. ruthenus - C European		
B.b. sibiricus,	Russia E to foothills of Rual		
B.b. yenisseensis,	Mts, S to lower Volga basin.		
B.b. turcomanus,	B.b. interpositus - From		
B.b. omissus, B.b.	Romania and S Ukraine E to		
hemachalana,	Volga delta, S to Middle East (S		
B.b. nikolskii, B.b.	to C Israel and Jordan) and NW		
	Iran.		
jakutensis,			
B.b. ussuriensis,	B.b. sibiricus - From W		
B.b. kiautschensis,	foothills of Urals E to R Ob, S		
B.b. swinhoei	to W Altai.		
	B.b. yenisseensis - C Siberia		
	from R Ob to L Baikal, S to		
	Altai and N Mongolia.		
	B.b. turcomanus - Steppes		
	between lower R Volga and R		
	Ural, E to Transbaikalia, and S		
	to Kazakhstan, extreme NW		
	China (Tarim Basin in NW		
	Xinjiang) and W Mongolia.		
	B.b. omissus - Turkmeniya to		
	W China (Chinese Turkestan).		
	B.b. hemachalana - From		
	Pamirs and N Tien Shan S to		
	Himalayas.		
	B.b. nikolskii - E Iraq and Iran,		
	Afghanistan, and N & W		
	Pakistan.		
	B.b. jakutensis - NE Siberia.		
	B.b. ussuriensis - SE Siberia to		
	NE China, Sakhalin, N		
	Hokkaido and S Kuril Is.		
	B.b. kiautschensis - From W &		
	C China (S to Yunnan and		
	Sichuan) E to Korea.		
	B.b. swinhoei - SE China.		

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
Scientific Ivame	Kange	5)	Recommendation
Rock Eagle-owl Bubo bengalensis	Indian Subcontinent (except Sri Lanka), N to foothills of Himalayas, and W Myanmar.	NGT. CITES II. No details on population levels; generally uncommon, but perhaps more common locally in N and C India. Further studies needed on ecology and biology.	Not recommended
Pharaoh Eagle-owl Bubo ascalaphus 2 subspecies B.a. ascalaphus, B.a. desertorum	B.a. ascalaphus - NW Africa and N Egypt E to W Iraq. B.a. desertorum - Sahara S to Mauretania and Niger, E to Ethiopia, Arabia and S Iraq.	NGT. CITES II. Little information on population levels, but probably not uncommon in most of range.	Not recommended
Cape Eagle-owl Bubo capensis 3 subspecies B.c. dillonii, B.c. mackinderi, B.c. capensis	 B.c. dillonii - S Eritrea and Ethiopian Highlands. B.c. mackinderi - From WC Kenya S to Zimbabwe and W Mozambique. B.c. capensis - South Africa and extreme S Namibia. 	NGT. CITES II. Generally uncommon to rare, and very local; more common in some places, e.g. Mau Plateau in SW Kenya	Not recommended
Spotted Eagle-owl Bubo africanus 3 subspecies B.a. milesi, B.a. africanus, B.a. tanae	B.a. milesi - SW Arabia, Yemen and Oman. B.a. africanus - Gabon E to Zaire (S of rainforest), S Uganda and C Kenya, S to the Cape. B.a. tanae - R Tana and Lali Hills, in SE Kenya.	NGT. CITES II. Few data on densities.	Not recommended
Greyish Eagle-owl Bubo cinerascens	Senegambia E to Ethiopia and Somalia, S to Cameroon, N Uganda and N Kenya.	NGT. CITES II. Generally rather uncommon through most of range.	Not recommended
Fraser's Eagle-owl Bubo poensis	Liberia E to W Uganda, S through Congo basin to C Zaire and NW Angola; also Bioko (Fernanco Póo).	NGT. CITES II. Biology relatively unknown, and breeding undocumented.	Not recommended
Usambara Eagle- owl Bubo vosseleri	Usambara Mts of NE Tanzania; recently discovered in Uluguru Mts; also possible sighting in Nguru Mts.	Vulnerable. CITES II. Restricted- range species: present in Tanzania- Malawi Mountains EBA.	Not recommended
Forest Eagle-owl Bubo nipalensis 2 subspecies B.m. nipalensis, B.n. blighi	B.n. nipalensis - Himalayas from N Uttar Pradesh E to SW China (Yunnan), S to Cambodia and Vietnam; also S India in Western Ghats and Tamil Nadu. B.n. blighi - Sri Lanka.	NGT. CITES II. Currently considered Near-threatened. Rare and local in Indian Subcontinent, including Sri Lanka; at best uncommon in Thailand; rare to very rare in other parts of range; in Myanmar, reported to be well distributed but much overlooked.	Not recommended
Barred Eagle-owl Bubo sumatranus 2 subspecies B.s. sumatranus, B.s. strepitans	B.s. sumatranus - Extreme S Myanmar and peninsular Thailand S to Sumatra, including Bangka I. B.s. strepitans - Borneo, Java and Bali.	NGT. CITES II. Little information available. Ability to adapt to disturbed forest and to accept second-growth habitats suggested that species is not in any immediate danger.	Not recommended
Shelley's Eagle- owl <i>Bubo shelleyi</i>	Sierra Leone and Liberia E to Ghana, and S Cameroon and N Gabon E to N Zaire.	NGT. CITES II. Rare and very local throughout its range.	Not recommended

Verreaux's Eagle- owl (Milky Eagle Owl) Bubo lacteus	Tropical W Africa patichly from Senegal and C Mali E to Cameroon, and from C Sudan, N Ethiopia and Somalia S to South Africa.	NGT. CITES II.	Red SSP
Dusky Eagle-owl Bubo coromandus 2 subspecies B.c. coromandus, B.c. klossi	B.c. coromandus - Pakistan, N & C India and S Nepal E to Assam and Bangladesh; apparently this race also in E China. B.c. klossi - W & S Myanmar, W Thailand.	NGT. CITES II.	Not recommended
Akun Eagle-owl Bubo leucostictus	Patchily from Sierra Leone and Liberia E to Nigeria and Cameroon, S to mouth of R Congo, Cabinda and probably NW Angola, and across N Zaire.	NGT. CITES II. Patchy distribution with restricted pattern of occurrence; usually considered uncommon More study needed to assess its status, and any possible impacts of logging.	Not recommended

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
	8	<u></u>	Recommendation
Philippine Eagle-	B.p. philippensis - Luzon and	Endangered. CITES II. Rare;	Not recommended
owl	Catanduanes.	Rapid population decline due to	
Bubo philippensis	B.p. mindanensis - Samar,	extensive lowland habitat	
2 subspecies	Leyte and Mindanao; recently	destruction, and possibly hunting.	
B.p. philippensis,	recorded on Bohol.		
B.p. mindanensis			
Blakiston's Eagle-	B.b. piscivorus - W Manchuria	Endangered. CITES II. One of	Not recommended
owl	(W of Great Khingan Mts).	world's rarest owls. Numbers in	
Bubo blakistoni	B.b. doerriesi - SE Siberia and	Russia, including Sakhalin and S	
4 subspecies	extreme NE China, to Korean	Kuril Is, estimated at 300-400 pairs	
B.b. piscivorus,	border.	in 1984.	
B.b. doerriesi,	B.b. karafutonis - Sakhalin I.		
B.b. karafutonis,	B.b. blakistoni - Hokkaido and		
B.b. blakistoni	S Kuril Is.		
Brown Fish-owl	<i>K.z. semenowi</i> - S Turkey,	NGT. CITES II. Generally	Not recommended
Ketupa zeylonensis	Israel (probably extinct) and N	uncommon. Rare in W of range: in	
4 subspecies	Syria to NW India.	Middle East, either extinct or on	
K.z. semenowi,	<i>K.z. leschenault</i> - India (S of	the verge, with last confirmed	
K.z. leschenault,	Himalayas) E to Myanmar	sighting in mid 1970's, and none	
K.z. zeylonensis,	(except NE) and Thailand.	located in surveys in mid 1980's	
K.z. orientalis	<i>K.z. zeylonensis</i> - Sri Lanka.		
	<i>K.z. orientalis</i> - NE Myanmar to		
	SE China (Guangxi,		
	Guangdong), S to Malay		
	Peninsula, Indochina and		
	Hainan I.		
Tawny Fish-owl	Himalays from NW India,	NGT. CITES II. Currently	Not recommended
Ketupa flavipes	Nepal and Bhutan to NE India,	considered Near-threatened. In W,	
	E to C China and Taiwan, and S	very rare and local to uncommon.	
	to N Bangladesh, NE Myanmar		
	and S Indochina.		

Buffy Fish-owl Ketupa ketupu 4 subspecies K.k. aagaardi, K.k. ketupu, K.k. minor, K.k. pageli	K.k. aagaardi - S Assam to S Thailand and Vietnam. K.k. ketupu - Malay Peninsula, Riau Archipelago, Sumatra, Bangka, Belitung, Java, Bali, and Borneo (except NW). K.k. minor - Nias I, off W Sumatra. K.k. pageli - NW Borneo.	NGT. CITES II. Status poorly known; uncommon in Thailand; locally uncommon to more or less common in Malay Peninsula and SE Asia; common in Borneo.	Not recommended
Snowy Owl Nyctea scandiaca	Breeds from W & N Scandinavia E across N Russia and N Siberia, including Novaya Zemlya, to Chuktotski Peninsula, Anadyrland, N Koryakland and Commander Is; then North America in W Aleutians (Attu and Buldir), Hall I in Bering Sea, and from W Alaska E through N Canada to N Labrador, including Banks, Prince Patrick and N Ellesmere Is; also N Greenland. Has bred occasionally in Iceland and N Britain (Shetland Is).	NGT. CITES II. Generally uncommon to scarce. In North America, overall status presumed little changed	Yellow SSP
Pel's Fishing-owl Scotopelia peli	Locally from Senegambia E to Benin, and from Nigeria S across Congo Basin and C Africa to Botswana, Mozambique and NE South Africa; also SE Sudan, Ethiopia, S Somalia, Kenya and Tanzania; status in S Mali, Burkina Faso and S Niger unclear.	NGT. CITES II	Not recommended
Rufous Fishing- owl Scotopelia ussheri	Sierra Leone, Liberia, Ivory Coast and Ghana; possibly also Guinea.	Endangered. CITES II. Restricted- range species: present in Upper Guinea Forests EBA. Population unknown.	Not recommended
Vermiculated Fishing-owl Scotopelia bouvieri	Congo Basin in S Cameroon, Gabon, Central African Republic, Congo, Zaire, and extreme NW Angola; possibly SE Nigeria.	NGT. CITES II. Little is known about its biology	Not recommended

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Spotted Wood-owl	S.s. seloputo - S Myanmar and	NGT. CITES II. Reports vary.	Not recommended
Strix seloputo	C Thailand S to Sumatra	Possibly overlooked as a result of	
3 subspecies	(Jambi) and Java.	its rather secretive habits, although	
S.s. seloputo, S.s.	S.s. baweana - Bawean I, off N	species seems to occur at naturally	
baweana, S.s.	Java.	low densities.	
wiepkeni	S.s. wiepkeni - Calamian Is and		
	Palawan, in W Philippines.		
Mottled Wood-owl	S.o. grisescens - From base of	NGT. CITES II. Uncommon in	Not recommended
Strix ocellata	Himalayas in Pakistan S to	India; no recent records from	
3 subspecies	about Rajasthan, and E to Bihar.	Pakistan, were extremely rare or	

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S.o. grisescens,	S.o. grandis - S Gujarat	possibly even extinct. Status in	
S.o. grandis,	(Saurashtra Peninsula).	Myanmar uncertain; said to have	
S.o. ocellata	S.o. ocellata - Peninsular India.	been common in SW (Arakan)	
	Apparently resident also in W	before 1950's, but no information	
	Myanmar, but race	since then.	
	undetermined.		
Brown Wood-owl	Malaysia	NGT. CITES II. Uncommon	Not recommended
Strix		throughout most of range in Indian	
leptogrammica		Subcontinent, and rare and local in	
14 subspecies		Bangladesh; rare in Java, where	
S.l. newarensis,		ongoing clearance of mountain	
S.l. ticehursti,		forest represents a major threat; in	
S.l. caligata, S.l.		rest of range appears to be	
laotiana, S.l.		uncommon to rare, and again	
indranee,		suffering from forest destruction.	
S.l. ochrogenys,		_	
S.l. maingayi,			
S.l. myrtha, S.l.			
nyctiphasma,			
S.l. niasensis, S.l.			
chaseni, S.l. vaga,			
S.l.			
leptogrammica,			
S.l. bartelsi			
Tawny Owl	S.a. aluco - N & E Europe E to	NGT. CITES II. Thought rather	Phase Out
Strix aluco	W Russia (Ural Mts), S to Alps,	uncommon in China.	
11 subspecies	Balkans and Black Sea;		
S.a. aluco, S.a.	intergrades with.		
siberiae, S.a.	S.a. siberiae - From Ural Mts to		
sylvatica,	W Siberia.		
S.a. mauritanica,	S.a. sylvatica - Britain, France		
S.a. willkonskii,	and Iberia; probably this race		
S.a. sanctinicolai,	also from S Italy and Greece E		
S.a. harmsi,	to W & C Turkey and Middle		
S.a. biddulphi, S.a.	East; intergrades with		
nivicola, S.a. ma,	sanctinicolai.		
S.a. yamadae	S.a. mauritanica - NW Africa		
	(Morocco to Tunisia).		
	S.a. willkonskii - NE Turkey,		
	Caucasus and NW Iran, E to		
	Turkmeniya.		
	S.a. sanctinicolai - NE Iraq and		
	W Iran.		
	S.a. harmsi - Turkestan.		
	S.a. biddulphi - Pakistan and		
	NW India.		
	S.a. nivicola - Nepal E to SE		
	China, S to N Myanmar and N		
	Indochina.		
	S.a. ma - NE China (Jilin) and		
	Korea.		
	S.a. yamadae - Taiwan.		

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2&	TAG
Hume's Owl Strix butleri	E & S Israel, Jordan, Sinai Peninsula and E Egypt (Red Sea mountains), and patchily in Arabian Peninsula (Saudi Arabia, Yemen and Oman); possibly still S Pakistan (Makran Coast), perhaps also S Iran.	NGT. CITES II.	Not recommended
Spotted Owl Strix occidentalis 3 subspecies S.o. caurina, S.o. occidentalis, S.o. lucida	North America and Mexico.	NGT. CITES II. Currently considered Near-threatened. Races caurina and lucida listed as threatened under US Endangered Species Act, caurina as endangered in Canada, lucida as threatened in Mexico; occidentalis listed as species of special concern by state of California.	Phase Out
Barred Owl Strix varia 4 subspecies S.v. varia, S.v. helveola, S.v. georgica, S.v. sartorii	North America and Mexico	NGT. CITES II. Status uncertainDependent on forest, requires at least some old-growth trees for nesting; has probably suffered in E & SE parts of range, where large stands of mature forests have been lumbered.	Phase Out
Fulvous Owl Strix fulvescens	S Mexico (E Oaxaca and Chiapas), Guatemala, Honduras and El Salvador.	NGT. CITES II. Restricted-range species: present in North Central American Highlands EBA. Little available information on species' ecology, but deforestation likely to have detrimental and possibly severe effect on its population size.	Not recommended
Rusty-barred Owl Strix hylophila	E & S Paraguay, SE Brazil (from Minas Gerais to Rio Grande do Sul) and extreme NE Argentina (Misiones).	NGT. CITES II. Generally rare; locally fairly common, e.g. in NE Argentina (Misiones). Major threat appears to be habitat loss, mainly through logging and burning of forest. Because of the scale of such habitat loss in all parts of its range, species should be carefully monitored.	Not recommended
Rufous-legged Owl Strix rufipes 2 subspecies S.r. rufipes, S.r.	S.r. rufipes - From Chile and extreme WC Argentina S to Tierra del Fuego. S.r. sanborni - Chiloe I, off SC	NGT. CITES II. Status uncertain, owing to rather elusive habits.	Not recommended
sanborni Chaco Owl Strix chacoensis	Chile. Chaco of S Bolivia (Santa Cruz), W Paraguay and N Argentina (S to Córdoba, San Luis and N La Pampa).	NGT. CITES II. No information on population size	Not recommended
Ural Owl Strix uralensis 8 subspecies S.u. liturata, S.u.	S.u. liturata - N Europe and NW Russia (E to about Arkhangel'sk region), S to N Poland, Belarus and middle R	NGT. CITES II.	Not recommended

uralensis,	Volga.	
S.u. macroura, S.u.	S.u. uralensis - From E	
yenisseensis,	European Russia E to Okhotsk	
S.u. nikolskii, S.u.	coast.	
japonica,	<i>S.u. macroura</i> - C & SE Europe	
S.u. hondoensis,	(from Carpathian Mts S to	
S.u. fuscescens	Bulgaria, and in W Balkans).	
	<i>S.u. yenisseensis</i> - C Siberian	
	plateau.	
	S.u. nikolskii - Transbaikalia E	
	to Sakhalin, S to NE China and	
	Korea.	
	S.u. japonica - Hokkaido.	
	S.u. hondoensis - N & C	
	Honshu.	
	S.u. fuscescens - S Honshu S to	
	Kyushu.	

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
	8	<u></u>	Recommendation
Sichuan Wood-owl Strix davidi	C China: SE Qinghai and W & C Sichuan.	Vulnerable. CITES II. Restricted-range species: present in West Sichuan Mountains EBA. Apparently rare, but no quantitative data on population. Occurs in Jiuzhaigou Reserve, Sichuan. Threatened by extensive deforestation occuring within its range. Further research urgently required.	Not recommended
Great Grey Owl Strix nebulosa 2 subspecies S.n. nebulosa, S.n. lapponica	S.n. nebulosa - North America, from C Alaska E to SW Quebec, S to EC California, N Idaho and NE Minnesota. S.n. lapponica - Eurasia, from Fenno-Scandia E to W Koryakland, S to Lithuania, N Mongolia, NE China and N Sakhalin.	NGT. CITES II. Populations fluctuate widely, but generally scarce, with food supply likely critical factor regulating numbers.	Phase Out
African Wood-owl Strix woodfordii 4 subspecies S.w. nuchalis, S.w. umbrina, S.w. nigricantior, S.w. woodfordii	s.w. nuchalis - Senegambia E to S Sudan and Uganda, S to N Angola and Zaire (except S & E), including Bioko I. s.w. umbrina - Ethiopia and SE Sudan. s.w. nigricantior - S Somalia, Kenya, Tanzania, Zanzibar and E Zaire. s.w. woodfordii - S Angola and S Zaire E to SW Tanzania, S to N Botswana and the Cape.	NGT. CITES II	Not recommended
Mottled Owl Strix virgata 7 subspecies S.v. squamulata,	Mexico, Central and South America	NGT. CITES II. Rather widespread, and considered fairly common to common in some places.	Phase-out

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S.v. tamaulipensis,			
S.v. centralis, S.v.			
virgata,			
S.v. macconnelli,			
S.v. superciliaris,			
S.v. borelliana			
Black-and-white	C Mexico to NW Venezuela, W	NGT. CITES II. Forest clearance a	Not recommended
Owl	Colombia and W Ecuador and	likely threat; extensive use of	
Strix nigrolineata	extreme NW Peru.	pesticides may also affect it.	
Black-banded Owl	S.h. huhula - E Colombia, S	NGT. CITES II. Appears to be	Not recommended
Strix huhula	Venezuela and the Guianas to	scarce throughout entire range	
2 subspecies	NE Brazil, S to E Peru, NW		
S.h. huhula, S.h.	Argentina, N Paraguay and E		
albomarginata	Brazil.		
	S.h. albomarginata - SE Brazil,		
	E Paraguay and NE Argentina		
	(Misiones).		
Rufous-banded	Andes from N Venezuela S to	NGT. CITES II. Status uncertain;	Not recommended
Owl	W & C Bolivia.	locally fairly common, but few	
Strix albitarsis		reliable data. Probably adversely	
		affected by cutting of forest habitat.	
Maned Owl	Liberia, Ivory Coast and Ghana;	NGT. CITES II. Very poorly	Not recommended
Jubula lettii	and patchily from S Cameroon	known; status difficult to assess	
	and Ngabon to E Zaire.	owing to species' secretive and	
		nocturnal habits, and because of	
		scant information on its biology.	
Crested Owl	L.c. stricklandi - S Mexico to	NGT. CITES II. Very poorly	Not recommended
Lophostrix cristata	W Panama and W Colombia.	known	
3 subspecies	<i>L.c. wedeli</i> - E Panama to NE		
L.c. stricklandi,	Colombia and NW Venezuela;		
L.c. wedeli, L.c.	possibly also N Venezuela (1		
cristata	specimen from Aragua).		
	<i>L.c. cristata</i> - S Venezuela and		
	the Guianas to N Brazil (W		
	Pará), S through Amazonia to N		
	Bolivia and N Mato Grosso,		
	then W to SW Colombia, E		
	Ecuador and E Peru.		
	Louador and E i ciu.		

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Spectacled Owl	Mexico, Costa Rica and South	NGT. CITES II.	Yellow SSP
Pulsatrix	America		
perspicillata			
6 subspecies			
P.p. saturata, P.p.			
chapmani,			
P.p. trinitatis, P.p.			
perspicillata,			
P.p. boliviana, P.p.			
pulsatrix			
Tawny-browed	E Paraguay, extreme NE	NGT. CITES II. Restricted-range	Not recommended
Owl	Argentina (Misiones), and S	species: present in Atlantic Forest	
Pulsatrix	Brazil (from Espírito Santo S to	Lowlands EBA.	
koeniswaldiana	Santa Catarina).		
Band-bellied Owl	<i>P.m. melanota</i> - Possibly SE	NGT. CITES II. Very poorly	Not recommended

D 1 1	C 1 1' FF 1 1N	1 1 1 1 1	
Pulsatrix melanota	Colombia; E Ecuador, and N	known; considered relatively rare,	
2 subspecies	Peru to SE Peru.	and very few reliable records,	
P.m. melanota,	<i>P.m. philoscia</i> - WC Bolivia.	although apparent rarity possibly	
P.m. philoscia		due partly to species' nocturnal	
		habits and seldom penetrated forest	
		habitats	
Northern Hawk-	S.u. ulula - N Eurasia E to	NGT. CITES II. Numbers fluctuate	Not recommended
owl	Kamchatka and Sakhalin, C	markedly with abundance of small	
Surnia ulula	Siberia S to Tarbagatay.	rodents.	
3 subspecies	S.u. tianschanica - C Asia and		
S.u. ulula, S.u.	NW & NE China, possibly also		
tianschanica,	N Mongolia.		
S.u. caparoch	S.u. caparoch - Alaska through		
1	Canada to Newfoundland, S to		
	extreme N USA.		
Eurasian Pygmy-	G.p. passerinum - From	NGT. CITES II	Not recommended
owl	Scandinavia and mountains of		
Glaucidium	S, C & E Europe E across NW		
passerinum	& C Russia and Siberia to		
2 subspecies	Sakhalin and NE China.		
G.p. passerinum,	G.p. orientale - C & E Siberia.		
G.p. orientale	G.p. orientale C & E Sicolia.		
Collared Owlet	G.b. brodiei - From N Pakistan	NGT. CITES II. Mainly a forest	Not recommended
Glaucidium	through Himalayas to SE Tibet,	bird, only occasionally observed	Not recommended
brodiei	N Indochina, S, C & E China	near human habitation, so	
4 subspecies	(including Hainan), and S to	presumably vulnerable to effects of	
G.b. brodiei, G.b.	Malaysia.	habitat destruction.	
pardalotum,	G.b. pardalotum - Taiwan.	naonat destruction.	
1			
G.b. peritum, G.b.	G.b. peritum - Sumatra.		
borneense	G.b. borneense - Borneo.	NGT. CITES II.	Not no common de d
Pearl-spotted	G.p. perlatum - Senegambia to	NG1. CITES II.	Not recommended
Owlet	W Sudan; possibly also Liberia.		
Glaucidium	G.p. licua - E Sudan, Ethiopia		
perlatum	and Uganda S to N & E South		
2 subspecies	Africa, Angola and Namibia.		
G.p. perlatum,			
G.p. licua	G . W CE !! !	NOW CHARGE	37.
Northern Pygmy-	G.c. grinnelli - SE Alaska	NGT. CITES II.	Not recommended
owl	through coastal British		
Glaucidium	Columbia S to coastal W USA		
californicum	(Washington, Oregon,		
4 subspecies	California).		
G.c. grinnelli, G.c.	G.c. swarthi - Vancouver I.		
swarthi,	G.c. californicum - British		
G.c. californicum,	Columbia and Alberta to W		
G.c. pinicola	USA (S to Nevada and		
	California) and NW Mexico (N		
	Sonora, NW Chihuahua).		
	G.c. pinicola - W USA (Idaho		
	and Montana S to Arizona and		
	New Mexico, E to Colorado).		

Common Name		Status in Wild (from Handbook	
Scientific Name	Range	to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Mountain Pygmy-	From SE Arizona S through	NGT. CITES II	Not recommended

1			T T
owl	interior highlands of Mexico		
Glaucidium gnoma	(from Chihuahua and Coahuila		
G . 1	S to Oaxaca).	NOT CITED II D	37
Guatemalan	S Mexico (Chiapas), Guatemala	NGT. CITES II. Restricted-range	Not recommended
Pygmy-owl	and Honduras.	species: present in North Central	
Glaucidium		American highlands EBA. Little	
cobanense		known about ecology and	
		population status. Forest	
- · - ·		destruction a possible threat.	
Baja Pygmy-owl	S Baja California (Mexico):	NGT. CITES II. Restricted-range	Not recommended
Glaucidium	Sierra Victoria, probably also	species: present in Baja California	
hoskinsii	Sierra de la Giganta.	EBA. Little known about ecology	
G · P'	G.G Di . W.D.	and population status.	37
Costa Rican	C Costa Rica to W Panama,	NGT. CITES II. Restricted-range	Not recommended
Pygmy-owl	possibly to E Panama.	species: present in Costa Rica and	
Glaucidium		Panama highlands EBA. Rare in	
costaricanum	W 1 CA 1 ' C 1 1'	Panama.	NT . 1 1
Cloudforest	W slope of Andes in Colombia	NGT. CITES II. Species little	Not recommended
Pygmy-owl	(Cordillera Central) and	known, and no data on population	
Glaucidium	Ecuador.	level. Continuing forest destruction	
nubicola	F N.C.1. 1. 1.W	and degradation a major threat.	NI-4 1 1
Andean Pygmy-	From N Colombia and W	NGT. CITES II. Needs at least	Not recommended
owl	Venezuela S through Ecuador to	patchy forest, but little information	
Glaucidium	C Peru.	available; probably vulnerable to	
jardinii	F 1	forest destruction.	37
Yungas Pygmy-	E slope of Andes in SE Peru,	NGT. CITES II.	Not recommended
owl	WC Bolivia and NW Argentina.		
Glaucidium			
bolivianum		NOT CITED II	NT 4 1 1
Colima Pygmy-	G.p. oberholseri - S Sonora to S	NGT. CITES II.	Not recommended
owl	Sinaloa (NW Mexico).		
Glaucidium	G.p. palmarum - Nayarit to		
palmarum	Oaxaca (C Mexico).		
3 subspecies <i>G.p. oberholseri</i> ,	G.p. griscomi - SW Morelos and NE Guerrero (C Mexico).		
	and NE Guerrero (C Mexico).		
G.p. palmarum, G.p. griscomi			
Tamaulipas	NE Mexico (S Tamaulipas, SE	NGT. CITES II. Restricted-range	Not recommended
Pygmy-owl	San Luis Potosí and extreme N	species: present in Southern Sierra	Not recommended
Glaucidium		Madre Oriental EBA.	
sanchezi	Hidalgo).	iviaure Offental EDA.	
Central American	G.g. occultum - S Mexico (SE	NGT. CITES II. Generally little	Not recommended
Pygmy-owl	Veracruz, N Oaxaca and	known	1 vot recommended
Glaucidium	Chiapas).	KIIOWII	
griseiceps	G.g. griseiceps - Guatemala,		
3 subspecies	Belize and Honduras.		
G.g. occultum,	G.g. rarum - Costa Rica and		
G.g. occulium, G.g. griseiceps,	Panama.		
G.g. griseiceps, G.g. rarum	i anama.		
Subtropical	E slope of Andes in Ecuador	NGT. CITES II. Considered	Not recommended
Pygmy-owl	and Peru; possibly N to SW	uncommon	1 tot 1000mmended
Glaucidium	Colombia, possibly also	with our transfer of the state	
parkeri	extending farther S into N		
pariver	Bolivia.		
Amazonian	From SE Venezuela (Bolívar) E	NGT. CITES II. Generally	Not recommended
Pygmy-owl	through the Guianas to N Brazil	considered uncommon, but may	oviocamionaou
Glaucidium hardyi	(Pará), and S to SE Peru, N & E	well be overlooked as it lives high	
	_ , ~ ~ ~		i

	Bolivia and S Mato Grosso.	up in forest; often kept as pet by native tribes. Vulnerable to forest destruction throughout range.	
Least Pygmy-owl Glaucidium minutissimum	E Paraguay, S & E Brazil and possibly NE Argentina (Misiones).	NGT. CITES II. Possibly rare, though sometimes adopted as pet by native people; perhaps escapes attention because of less accessible, more forested habitat. Habitat destruction probably represents a serious threat.	Not recommended

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2&	TAG
Ferruginous Pygmy-owl Glaucidium brasilianum 12 subspecies G.b. cactorum, G.b. saturatum, G.b. ridgwayi, G.b. medianum, G.b. margaritae, G.b. phalaenoids, G.b. duidae, G.b. olivaceum, G.b. ucayalae, G.b. brasilianum, G.b. pallens, G.b. stranecki	North America, South America, Trinidad, Mexico	NGT. CITES II. In USA, has declined drastically during 20 th century	Recommendation Phase Out
Tucuman Pygmy- owl Glaucidium tucumanum	NW Argentina from Salta and Tucumán to at least Córdoba.	NGT. CITES II. Status uncertain, but probably not uncommon locally. Habitat destruction the main threat.	Not recommended
Peruvian Pygmy- owl Glaucidium peruanum	W Ecuador (Manabí) S through W Peru to N Chile; also E of Andes in extreme SE Ecuador (Zamora-Chinchipe) and Marañón drainage of Peru.	NGT. CITES II.	Not recommended
Austral Pygmy- owl Glaucidium nanum	Breeds S Chile and S Argentina S to Tierra del Fuego, some wintering farther N in Chile and Argentina.	NGT. CITES II.	Not recommended
Cuban Pygmy-owl Glaucidium siju 2 subspecies G.s. siju, G.s. vittatum	G.s. siju - Cuba. G.s. vittatum - I of Pines.	NGT. CITES II.	Not recommended
Red-chested Owlet Glaucidium tephronotum 4 subspecies G.t. tephronotum, G.t. pycrafti, G.t. medje, G.t.	G.t. tephronotum - Liberia, Ivory Coast and Ghana. G.t. pycrafti - Cameroon. G.t. medje - Congo Basin, E Zaire and SW Uganda. G.t. elgonense - E Uganda and W Kenya.	NGT. CITES II. Rare and hard to locate.	Not recommended

elgonense			
Sjostedt's Owlet	Cameroon, Gabon, N Congo, S	NGT. CITES II. Uncommon in	Not recommended
Glaucidium	Central African Republic and	most of range	
sjostedti	NW & C Zaire.		
Asian Barred	G.c. cuculoides - Himalayas	NGT. CITES II.	Not recommended
Owlet	from NE Pakistan and Kashmir		
Glaucidium	E to W Sikkim.		
cuculoides	G.c. austerum - E Sikkim,		
8 subspecies	Bhutan, NE Assam and NW		
G.c. cuculoides,	Myanmar.		
G.c. austerum,	G.c. rufescens - NE India,		
G.c. rufescens,	Bangladesh and N Myanmar.		
G.c. bruegeli,	G.c. bruegeli - S Myanmar and		
G.c. delacouri,	S Thailand.		
G.c. deignani,	G.c. delacouri - N Indochina.		
G.c. whitelyi, G.c.	G.c. deignani - SE Thailand and		
persimile	S Indochina.		
	G.c. whitelyi - W, C & SE		
	China and NE Vietnam.		
	G.c. persimile - Hainan.		
Javan Owlet	Java and Bali.	NGT. CITES II. Little information	Not recommended
Glaucidium		available; ecology and tolerance of	
castanopterum		human activities may be similar to	
		those of <i>G. cuculoides</i> ; detailed	
		information much desired. Habitat	
		loss probably main threat.	
Jungle Owlet	G.r. radiatum - Himalayas from	NGT. CITES II. Status poorly	Not recommended
Glaucidium	Himachal Pradesh E to Bhutan,	known. Common in Sri Lanka, but	
radiatum	Bangladesh and possibly W	suffering under deforestation	
2 subspecies	Myanmar, and S through India;		
G.r. radiatum, G.r.	also Sri Lanka.		
malabaricum	G.r. malabaricum - SW India.		

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
Scientific 1 (unite	Tunge	<u>5</u>)	Recommendation
Chestnut-backed	Sri Lanka.	NGT. CITES II. Restricted-range	Not recommended
Owlet		species: present in Sri Lanka EBA.	
Glaucidium		Currently considered Near-	
castanonotum		threatened.	
African Barred	G.c. scheffleri - Extreme S	NGT. CITES II. Threatened by	Not recommended
Owlet	Somalia and E Kenya to NE	habitat destruction, bush clearance	
Glaucidium	Tanzania.	for agriculture occurring at	
capense	G.c. ngamiense - C Tanzania	alarming rate; especially dangerous	
3 subspecies	and SE Zaire across to S	to survival since ecology and exact	
G.c. scheffleri,	Angola, S to N Namibia, N	habitat affinities so poorly	
G.c. ngamiense,	Botswana, E Transvaal and SC	understood.	
G.c. capense	Mozambique; also Mafia I.		
	G.c. capense - From S		
	Mozambique S to E Cape.		
Chestnut Owlet	G.c. etchecopari - Patchily in	NGT. CITES II. Status of nominate	Not recommended
Glaucidium	Liberia and Ivory Coast.	race uncertain. W African	
casteneum	G.c. castaneum - NE Zaire	population isolated; considered	
2 subspecies	(Semliki Valley) and SW	uncommon to locally not	
G.c. etchecopari,	Uganda (Bwamba Forest).	uncommon in Liberia, and	
G.c. castaneum		widespread and common in Ivory	

		Coast; likely to occur in Ghana,	
		requires investigation.	
Albertine Owlet Glaucidium albertinum	Albertine Rift in E Zaire and N Rwanda.	Vulnerable. CITES II. Restricted- range species Surviving numbers not known, but small number of specimens collected from an area well explored by ornithologists suggests that it is rare.	Not recommended
Long-whiskered Owlet Xenoglaux loweryi	N Peru (Río Mayo valley, NW San Martín).	NGT. CITES II. Restricted-range species: present in Andean Ridgetop Forests EBA. Currently considered Near-threatened.	Not recommended
Elf Owl Micrathene whitneyi 4 subspecies M.w. whitneyi, M.w. idonea, M.w. sanfordi, M.w. graysoni	M.w. whitneyi - Breeds SW USA (extreme S Nevada, SE California, C Arizona, SW New Mexico and SW Texas) S to NW Mexico (Sonora). M.w. idonea - S Texas S to C Mexico (S to Puebla, W to Guanajuato). M.w. sanfordi - S Baja California and parts of Mexican mainland. M.w. graysoni - Revillagigedo Is (Socorro I).	NGT. CITES II. Almost extirpated in California, where classed as endangered by California Department of Fish and Game; however, species not included on federal or state lists of endangered and threatened species, nor under review for such listing.	Phase Out
Spotted Owlet Athene brama 4 subspecies A.b. albida, A.b. indica, A.b. brama, A.b. pulchra	A.b. albida - S Iran and S Pakistan; possibly also S Afghanistan. A.b. indica - N & C Indian Subcontinent. A.b. brama - S India. A.b. pulchra - Myanmar, Thailand (except S half of peninsula), S Laos, Cambodia and S Vietnam.	NGT. CITES II. Common over most of range, though rare in S Vietnam.	Not recommended
Forest Owlet Athene blewitti	WC & EC India: plains and low foothills of Akrani Range (W end of Satpura Mts) near Tapi (Tapti) R in NW Maharashtra (formerly W Khandesh), and probably in E Madhya Pradesh and W Orissa (no records in 20 th century from last two).	Critically Endangered. CITES I.	Not recommended
Common Nama		Status in Wild (from Handhook	
Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2& 5)	TAG Recommendation
Little Owl Athene noctua 13 subspecies A.n. vidalii, A.n. noctua, A.n. indigena, A.n. glaux, A.n. saharae,	A.n. vidalii - W & N Europe (S Baltic S to Iberia, including Balearic Is) E to NW Russia. A.n. noctua - C Europe (from about S Germany) S to Sardinia and Sicily, E to Romania. A.n. indigena - Albania, SE Yugoslavia, S & E Romania, S	NGT. CITES II. Population fluctuates, especially in N of range, where marked decreases recorded after severe winters.	Not recommended

A.n. spilogastra,	Ukraine, S Russia, Caucasus		
A.n. somaliensis,	and SW Siberia, S to Crete,		
A.n. lilith, A.n.	Turkey (except SE) and Middle		
bactriana, A.n.	East (S to Haifa).		
orientalis,	A.n. glaux - N Africa, and		
A.n. impasta, A.n.	coastal Israel S from Haifa.		
ludlowi, A.n.	A.n. saharae - N & C Sahara (S		
plumipes	to Mauritania, Mali, Niger,		
	Chad and Sudan), E		
	discontinuously into Arabian		
	Peninsula.		
	A.n. spilogastra - E Sudan, N		
	Ethiopia.		
	A.n. somaliensis - E Ethiopia,		
	Somalia.		
	A.n. lilith - Cyprus, and inland		
	Middle Est from SE Turkey S to		
	S Sinai.		
	A.n. bactriana - From SE		
	Azerbaijan, E Iraq, Iran and		
	Afghanistan E through C Asia		
	to L Balkhash.		
	A.n. orientalis - Extreme NW		
	China and adjacent Siberia.		
	A.n. impasta - Kokonor, W		
	Gansu.		
	A.n. ludlowi - SC China and S		
	& E Tibet, S to N Himalayas.		
	A.n. plumipes - NE China,		
	Mongolia and Ussuriland.		
	Introduced (<i>vidalii</i>), just outside		
	natural range, to Britain; also		
	introduced (<i>vidalii</i>) to New Zealand.		
Dumania a Ond		NCT CITECH Listed as	Vallana CCD
Burrowing Owl	North America, Venezuela,	NGT. CITES II. Listed as	Yellow SSP
Athene cunicularia	Colombia, Ecuduar, Bolivia,	endangered in Minnesota and Iowa,	
19 subspecies	Argentina, Brazil, Peru, Cuba,	and species of special concern in	
A.c. hypugaea, A.c.	Bahamas	Washington, Oregon, California,	
rostrata,		Montana, Idaho, Wyoming, Utah,	
A.c. floridana, A.c.		North and South Dakota,	
troglodytes,		Oklahoma and Florida; designated	
A.c. arubensis, A.c.		as endangered in British Columbia	
brachyptera,		and Manitoba, and threatened in	
A.c. apurensis, A.c.		Alberta and Saskatchewan	
minor, A.c.			
carrikeri,			
A.c. tolimae, A.c.			
pichinchae,			
A.c. punensis, A.c.			
intermedia,			
A.c. nanodes, A.c.			
juniensis,			
A.c. boliviana, A.c.			
grallaria,			
A.c. partridgei,			
A.c. cunicularia			

Common Name Scientific Name	Range	Status in Wild (from Handbook to the Birds of the World vol. 2&	TAG
		5)	Recommendation
Boreal Owl Aegolius funereus 6 subspecies A.f. funereus, A.f. caucasicus, A.f. pallens, A.f. magnus, A.f. beickianus, A.f. richardsoni	A.f. funereus - Europe from N Scandinavia S to Pyrenees and then E to Urals, excluding Caucasus. A.f. caucasicus - Caucasus; possibly this race or nominate in N Turkey. A.f. pallens - W Siberia, Tien Shan, and S Siberia E through NE China (Heilongjiang) to Russian Far East (including Sakhalin). A.f. magnus - NE Siberia, from Kolyma to Kamchatka. A.f. beickianus - NW India (Lahul) and W China (Qinghai). A.f. richardsoni - North America (from C Alaska S to W USA, and E through Canada to	NGT. CITES II.	Not recommended
Northern Saw- whet Owl Aegolius acadicus 2 subspecies A.a. acadicus, A.a. brooksi	Labrador). A.a. acadicus - From S Alaska S to S USA, E to SE Canada and N Florida; also highlands of Mexico from NE Sonora to C Michoacán, E in C highlands to Puebla, Hidalgo and C Oaxaca, with isolated population in SE Coahuila, SW Nuevo León and N San Luis Potosí. A.a. brooksi - Queen Charlotte Is (British Columbia).	NGT. CITES II. World population conservatively estimated at 100,000-300,000 individuals. No data on trends, but probably declining slowly as habitat lost	Phase Out
Unspotted Sawwhet Owl Aegolius ridgwayi 3 subspecies A.r. tacanensis, A.r. rostratus, A.r. ridgwayi	A.r. tacanensis - S Mexico (Chiapas). A.r. rostratus - Guatemala; Honduras and El Salvador (presumed this race). A.r. ridgwayi - Costa Rica and W Panama.	NGT. CITES II. Currently considered Near-threatened. Generally considered uncommon	Not recommended
Buff-fronted Owl Aegolius harrisii 3 subspecies A.h. harrisii, A.h. iheringi, A.h. dabbenei	A.h. harrisii - Andes from NW Venezuela S to NC Peru. A.h. iheringi - E Bolivia, Paraguay, C & E Brazil (Ceará to Rio Grande do Sul), S to NE Argentina and NE Uruguay. A.h. dabbenei - NW Argentina (Tucumán, Salta and Jujuy); also (possibly this race) W Bolivia.	NGT. CITES II. Currently considered Near-threatened. Considered generally rare throughout range, but very few data. Placed on preliminary "Blue List" in Colombia, where population believed to be declining	Not recommended

Rufous Owl Ninox rufa 4 subspecies N.r. humeralis, N.r. rufa, N.r. meesi, N.r. queenslandica	N.r. humeralis - New Guinea, including Aru and Waigeo Is. N.r. rufa - NE Western Australia (Kimberleys) and N Northern Territory (Arnhem Land). N.r. meesi - Coastal and subcoastal Cape York, S in Queensland to about R Endeavour and R Mitchell. N.r. queenslandica - Coastal and subcoastal Queensland from R Endeavour S to lower R Burdekin and perhaps Rockhampton.	NGT. CITES II. Subspecies queenslandica given as rare in Australian national listing and vulnerable in Queensland state listing, c. 1000 pairs estimated; meesi as rare in Queensland. Uncommon to rare and sparsely distributed in New Guinea; some pressure from traditional hunting. In Australia, adversely affected by forest clearance and, perhaps, by increasing numbers of hot first late in dry season.	Not recommended
Powerful Owl Ninox strenua	Coastal and subcoastal SE Queensland (S from R Dawson), E New South Wales and SE Victoria to extreme SE South Australia.	Vulnerable. CITES II. Listed as rare or vulnerable in Australian national listing and by 3 main states in which it occurs (Queensland, New South Wales and Victoria	Not recommended
Sumba Boobook Ninox rudolfi	Sumba I, in C Lesser Sundas.	Vulnerable. CITES II. Restricted- range species: present in Sumba EBA. Poorly known	Not recommended
Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& 5)	TAG Recommendation
Barking Owl Ninox connivens 4 subspecies N.c. rufostrigata, N.c. assimilis, N.c. peninsularis, N.c. connivens	N.c. rufostrigata - N Moluccas (Morotai, Halmahera, Bacan, Obi). N.c. assimilia - C & E New Guinea W to Merauke and R Sepik, including Manam I and Karkar I. N.c. peninsularis - Coastal and subcoastal NW, N & NE Australia S to R Endeavour in Queensland, and islands in SW Torres Strait. N.c. connivens - Coastal and subcoastal SW Australia, southern gulfs, and E & SE Australia (S from foot of Cape York Peninsula).	NGT. CITES II. In SE Australia evidence of decline in population, and concern because much habitat continues to be lost and degraded by clearing and overgrazing. Listed as vulnerable in New South Wales and Victoria.	Not recommended
Southern Boobook Ninox boobook 10 subspecies N.b. rotiensis, N.b. fusca, N.b. plesseni, N.b. moae, N.b. cinnamomina, N.b. remigialis,	N.b. rotiensis - Roti. N.b. fusca - Timor. N.b. plesseni - Alor. N.b. moae - Romang, Leti and Moa. N.b. cinnamomina - Babar. N.b. remigialis - Kai Is. N.b. pusilla - S New Guinea. N.b. ocellata - Australia W of	NGT. CITES II	Not recommended

N.b. ocellata, N.b. lurida, N.b. boobook Morepork Ninox novaeseelandiae	islands in Torres Strait; also Sawu (W of Timor). N.b. lurida - NE Queensland between Cooktown and Paluma. N.b. boobook - Coastal and subcoastal E Australia, S from S Queensland. N.n. leucopsis - Tasmania and Bass Strait islands. N.n. undulata - Norfolk I.	NGT. CITES II.Race <i>undulata</i> endangered on Norfolk I mainly through Clearing and selective	Not recommended
3 subspecies N.n. leucopsis, N.n. undulata, N.n. novaeseelandiae	N.n. novaeseelandiae - New Zealand, including most offshore islands.	loggingRace <i>albaria</i> extinct on Lord Howe I since 1950's, this due to clearing of forest and introduced species. Race <i>undulata</i> CITES I.	
Brown Hawk-owl Ninox scutulata 11 subspecies N.s. ussuriensis, N.s. japonica, N.s. lugubris, N.s. hirsuta, N.s. obscura, N.s. burmanica, N.s. palawanensis, N.s. randi, N.s. scutulata, N.s. javanensis, N.s. boreensis	N.s. ussuriensis - SE Siberia, SE Manchuria and N Korea. N.s. japonica - E China, C & S Korea, Japan and Taiwan. N.s. lugubris - N & C India to W Assam. N.s. hirsuta - S India and Sri Lanka. N.s. obscura - Andaman and Nicobar Is. N.s. burmanica - E Assam to S China, S to N Malay Peninsula, Thailand and Indochina. N.s. palawanensis - Palawan. N.s. randi - Philippines (Luzon, Marinduque, Mindoro, Negros, Cebu, Siquijor, Mindanao, Basilan). N.s. scutulata - S Malay Peninsula, Riau Archipelago, Sumatra and Bangka. N.s. javanensis - W Java. N.s. borneensis - Borneo and N Natuna Is.	NGT. CITES II.	Not recommended
Andaman Hawk- owl Ninox affinis	Andaman Is (South Andaman) and Nicobar Is (Great Nicobar, Camorta, Trinkat, Car Nicobar).	NGT. CITES II. Restricted-range species: present in Andaman Islands EBA and Nicobar Islands EBA. Currently considered Nearthreatened.	Not recommended
Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& 5)	TAG Recommendation
White-browed Hawk-owl Ninox superciliaris	NE, SW & S Madagascar.	NGT. CITES II.	Not recommended
Philippine Hawkowl Ninox philippensis 7 subspecies N.p. philippensis, N.p. mindorensis, N.p. spilonota,	N.p. philippensis - Luzon, Polillo, Marinduque, Catanduanes, Samar, Leyte, Buad, and perhaps Biliran. N.p. mindorensis - Mindoro. N.p. spilonata - Sibuyan, Tablas, Cebu and Camiguin	NGT. CITES II. Race <i>spilonota</i> and <i>reyi</i> , inhabiting small islands, highly threatened by habitat destruction, with local extinctions very likely, e.g. on Cebu and Tablas.	Not recommended

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N.p. proxima, N.p. centralis, N.p. spiolocephala, N.p. reyi	Sur. N.p. proxima - Masbate, Ticao. N.p. centralis - Panay, Guimaras, Negros, Bohol, Siquijor. N.p. spilocephala - Basilan, Mindanao, Dinagat, Siargao. N.p. rey - Sulu Archipelago.		
Ochre-bellied Hawk-owl Ninox ochracea	Sulawesi and Butung.	NGT. CITES II. Restricted-range species: present in Sulawesi EBA. Little known and status uncertain. Fairly widespread, but apparently not recorded from S Sulawesi.	Not recommended
Moluccan Hawkowl Ninox squamipila 4 subspecies N.s. hypogramma, N.s. hantu, N.s. squamipila, N.s. forbesi	N.s. hypogramma - Halmahera, Ternate and Bacan group. N.s. hantu - Buru. N.s. squamipila - Seram. N.s. forbesi - Tanimbar Is.	NGT. CITES II. Restricted-range species	Not recommended
Christmas Hawkowl Ninox natalis	Christmas I (Indian Ocean).	NGT. CITES I. Widespread but confined to small, isolated Christmas I, where the only strigid; population estimated at c. 560 pairs in 1997. Listed as vulnerable in Australian national list. Probably declined by 25% since settlement and clearance of a quarter of forest during phosphate mining; much of island now protected in National Park, and mining has ceased.	Not recommended
Jungle Hawk-owl Ninox theomacha 4 subspecies N.t. hoedtii, N.t. theomacha, N.t. goldii, N.t. rosseliana	N.t. hoedtii - Waigeo and Misool Is. N.t. theomacha - New Guinea. N.t. goldii - D'Entrecasteaux Archipelago (Goodenough, Fergusson, Normanby). N.t. rosseliana - Louisiade Archipelago (Tagula, Rossel).	NGT. CITES II.	Not recommended
Manus Hawk-owl Ninox meeki	Manus I (Admiralty Is).	NGT. CITES II. Restricted-range species: present in Admiralty Islands EBA.	Not recommended
Speckled Hawk- owl Ninox punctulata	Sulawesi, including Kabaena, Muna and Butung Is.	NGT. CITES II. Widespread, but generally uncommon.	Not recommended
Bismarck Hawk- owl Ninox variegata	New Britain, New Ireland and New Hanover, in Bismarck Archipelago.	NGT. CITES II. Restricted-range species: present in New Britain and New Ireland EBA.	Not recommended
New Britain Hawk-owl <i>Ninox odiosa</i>	New Britain, in Bismarck Archipelago.	NGT. CITES II. Restricted-range species: present in New Britain and New Ireland EBA	Not recommended
Solomon Hawk- owl Ninox jacquinoti 7 subspecies	N.j. eichhorni - Buka, Bougainville and Choiseul. N.j. jacquinoti - Ysabel and St George.	NGT. CITES II. Restricted-range species: present in Solomon Group EBA.	Not recommended

N.j. eichhorni, N.j.	<i>N.j. granti</i> - Guadalcanal.	
jacquinoti,	<i>N.j. mono -</i> Mono I.	
N.j. granti, N.j.	<i>N.j. floridae -</i> Florida I.	
mono, N.j.	<i>N.j. malaitae -</i> Malaita I.	
floridae,	N.j. roseoaxillaris - Bauro and	
N.j. malaitae, N.j.	San Cristobal.	
roseoaxillaris		

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2&	TAG
		<u>5</u>)	Recommendation
Papuan Hawk-owl Uroglaux dimorpha	Irian Jaya and Papua New Guinea, including Yapen I; probably occurs throughout New Guinea, but known only from NW & SE.	NGT. CITES II. Data-deficient. Sparsely distributed throughout range, and rarely seen; appears to be rare.	Not recommended
Laughing Owl Sceloglaux albifacies	Formerly occurred in mainly S half of North Island in areas of lower rainfall, in South Island E of Southern Alps but well into mountains, and on Stewart I.	Almost certainly Extinct. CITES II.	Not recommended
Jamaican Owl Pseudoscops grammicus	Jamaica.	NGT. CITES II. Restricted-range speciesExtensive cutting of forest has probably reduced its range and numbers; advisable to monitor status while island's forest areas continue to be destroyed.	Not recommended
Striped Owl Asio clamator 4 subspecies A.c. forbesi, A.c. clamator, A.c. oberi, A.c. midas	A.c. forbesi - S Mexico to Panama. A.c. clamator - Colombia and Venezuela S to E Peru and C & NE Brazil. A.c. oberi - Tobago and NE Trinidad. A.c. midas - E Bolivia and S Brazil S to N Argentina and Uruguay.	NGT. CITES II. Status generally poorly known, and little information on ecology and biology. Race <i>oberi</i> little known, may even be extinct.	Not recommended
Stygian Owl Asio stygius 6 subspecies A.s. lambi, A.s. robustus, A.s. siguapa, A.s. noctipetens, A.s. stygius, A.s. barberoi	A.s. lambi - W Mexican highlands (SW Chihuahua to Jalisco). A.s. robustus - From S Mexico (Guerrero and Veracruz) discontinuously to NW Venezuela, Colombia and Ecuador. A.s. siguapa - Cuba and I of Pines. A.s. noctipetens - Hispaniola and Ile de Gonâve. A.s. stygius - From N Brazil S to E Bolivia, NE Argentina and SE Brazil. A.s. barberoi - Paraguay and N Argentina.	NGT. CITES II. Considered generally rare or patchily distributed. Distribution incompletely documented. Data on life history needed to develop conservation strategies.	Not recommended
Northern Long- eared Owl Asio otus	A.o. otus - Eurasia, from British Is and Iberia E to Sea of Okhotsk, S to Mediterranean	NGT. CITES II.	Phase Out

4 subspecies A.o. otus, A.o. canariensis, A.o. tuftsi, A.o. wilsonianus	islands, Middle East, N Pakistan (has bred) and Japan, with isolated population in EC China; also Azores, and NW Africa (Morocco to NW Tunisia). A.o. canariensis - Canary Is. A.o. tuftsi - W Canada (S Yukon, S British Columbia E to Saskatchewan) S to Mexico		
	(NW Baja California, Nuevo Leon) and S USA (W Texas). A.o. wilsonianus - From SC & SE Canada (Manitoba E to Nova Scotia) S in USA to N Oklahoma and Virginia.		
African Long- eared Owl Asio abyssinicus 2 subspecies A.a. abyssinicus, A.a. graueri	A.a. abyssinicus - Highlands of Ethiopia and Eritrea. A.a. graueri - Ruwenzori and Mitumba Mts in E Zaire/W Uganda, and Mt Kenya.	NGT. CITES II. Scarce to rather rare throughout range. Race graueri rare on Mt Kenya; known from only 1 specimen, but sighted in 1975 and 1992.	Not recommended
Madagascar Long- eared Owl Asio madagascariensis	Madagascar.	NGT. CITES II. Status difficult to assess because of secretive and nocturnal lifestyle; may be overlooked. May be threatened by deforestation, which is extensive in Madagascar.	Not recommended

Common Name Scientific Name	Range	Status in Wild (from <u>Handbook</u> to the Birds of the World vol. 2& <u>5</u>)	TAG Recommendation
Short-eared Owl	A.f. flammeus - Breeds Iceland,	NGT. CITES II.	Phase Out
Asio flammeus	British Is, and locally through		
10 subspecies	Europe and Asia E to		
A.f. flammeus, A.f.	Kamchatka and Commander Is,		
ponapensis,	S to Spain, Caucasus, NE		
A.f. sandwichensis,	Mongolia and NE China; also		
A.f. domingensis,	North America from W & N		
A.f. portoricensis,	Alaska through Canada and S to		
A.f. pallidcaudus,	C USA.		
A.f. bogotensis,	A.f. ponapensis - Pohnpei I, in		
A.f. galapagoensis,	E Caroline Is.		
A.f. suinda, A.f.	A.f. sandwichensis - Hawaiian		
sanfordi	Is.		
	<i>A.f. domingensis</i> - Hispaniola;		
	also (possibly this race) Cuba.		
	A.f. portoricensis - Puerto Rico.		
	A.f. pallidicaudus - N		
	Venezuela, Guyana.		
	A.f. bogotensis - Colombia,		
	Ecuador, NW Peru.		
	A.f. galapagoensis - Galapagos		
	Is.		
	A.f. suinda - S Peru, WC		
	Bolivia, Paraguay and SE Brazil		
	S to Tierra del Fuego.		

	A.f. sanfordi - Falkland Is.		
Marsh Owl	A.c. tingitanus - NW Morocco.	NGT. CITES II.	Not recommended
Asio capensis	A.c. capensis - Isolated areas in		
3 subspecies	W Africa, from Senegal to Chad		
A.c. tingitanus,	and Cameroon; also from Sudan		
A.c. capensis, A.c.	and Ethiopian Highlands, and		
hova	from S Congo, S to the Cape.		
	A.c. hova - Madagascar.		
Fearful Owl	Solomon Is, on Bougainville,	Vulnerable. CITES II. Restricted-	Not recommended
Nesasio	Choiseul and Santa Isabel.	range species: present in Solomon	
solomonensis		Group EBA.	