2016 Midyear Meeting Program Updates

AZA Antelope and Giraffe TAG Chair, Martha Fischer, fischer@stlzoo.org



Forest Woodland Subgroup

Vice Chair, Sharon Joseph, sjoseph@houstonzoo.org



Common eland

- 73.134.7 (214) in 26 AZA institutions
- ~145.222.22 (389) in North America
- Yellow SSP zoo population stable
- Least Concern wild population stable
- Challenges that affect program:
 - Unknown pedigree
 - Response rate for surveys/ lack of communication from non AZA holders
- What can TAG do to help program & improve sustainability?
 - Help resolve pedigree issues, better track pedigrees in future births
 - Contact program leader with studbook updates and wants & needs



- Lou Keeley
- Blank Park Zoo
- Ilkeeley@blankparkzoo.net
- **515.974.2504**



Eastern bongo

- 58.104 (162) in 38 institutions
- Yellow SSP zoo population ↑
- Critically Endangered wild population ↑
- Challenges that affect program
 - Increase annual births
 - Need males
- What can TAG do to help program & improve sustainability?
 - Encourage animals not to be sent out of the SSP



- Program Leaders
- Ron Surratt-SSP Chair
 - Int'l Bongo Foundation rsurratt@fortworthzoo.org 817-759-7160
- John Ward SSP Vice Chair jward@fortworthzoo.org
- Courtney Janney- AZA Regional Studbook
 - cjanney@memphiszoo.org
- Lydia Bosley Int'l Studbook
 - Ifbosley@q.com



Eastern giant eland

- 23.31 (54) in 5 NA institutions
- No AZA program. International studbook zoo population ↑
- Least Concern wild population ↓
- Challenges that affect program:
 - Importation necessary to improve genetic viability
 - Nutritional/veterinary issues
 - Lack of space more holders needed
 - Difficult to manage this as an AZA program due to ownership politics. The majority shareholder makes all of the final decisions & recommendations. This is the cause of many institutions leaving the program.
- What can TAG do to help program & improve sustainability?
 - Help broker working relationships between participating institutions

- Lissa McCaffree
- San Diego Zoo's Safari Park
- Imccaffree@sandiegozoo.org
- **-** 760.492.4486





Gerenuk

- 35.47 (82) in 16 institutions
- Yellow SSP zoo population stable
- Near Threatened wild population ↓
- Challenges that affect program:
 - Need external imports from other countries
 - Untimely deaths of young animals
- What can TAG do to help program & improve sustainability?
 - Help bring in more genetics
 - Support Al research



Program leader

- Christina Seely
- Denver Zoo
- 720.337.1500
- cseely@denverzoo.org

Vice Coordinator

- Manda Butler
- Cameron Park Zoo
- Mandab@ci.ewaco.tx.us
- 254-750-8435



Impala

- 85.186.4 (275) at 22 institutions
- Yellow SSP
- Least Concern wild population stable
- Studbook published in May 2015



- Program Leader
 - Emily Loerch
 - Disney's Animal Kingdom
 - Emily.K.Loerch@disney.com

Greater kudu

- 99.198.1 (298) in 38 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population stable
- Challenges that affect program:
 - Low % known genetics in population
 - Lack of sexually mature males
- What can TAG do to help program & improve sustainability?
 - Promote studies that focus on developing DNA testing for population planning purposes
 - Continue dialogue with both AZA and non-AZA holders regarding benefits of SSP participation



- Denny Charlton
- Smithsonian National Zoo
- charltond@si.edu
- **301.278.2069**



Lowland nyala

- 60.120 (180) in 21 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population stable
- Challenges that affect program:
 - New institutions needed for both bachelor and breeding groups
 - New genetics needed
- What can TAG do to help program
 & improve sustainability?
 - Assist with removing barriers to importation of animals or semen for artificial insemination



- Steve Metzler
- San Diego Zoo Safari Park
- smetzler@sandiegozoo.org
- **760.473.6993**



Roan antelope

- 43.68 (111) in 10 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population ↓
- Challenges that affect this program:
 - Loss of holding institutions
- What can TAG do to help program & improve sustainability?
 - Conduct a PVA
 - Continue to pursue new holding institutions

Program leader

- Andi Kornak
- Cleveland Metroparks Zoo
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- **216.635.3373**

Vice Chair

- Scotty Wade
- White Oak Conservation Center
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- 904-225-3357





Sable antelope

- 127 animals in 12 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population ↓
- Challenges that affect program:
 - Lack of space/holders needed
 - New genetics required
 - Development of bachelor herds
- What can TAG do to help program
 & improve sustainability?
 - USDA import station to facilitated imports

- Jill Piltz
- Disney's Animal Kingdom
- Jill.M.Piltz@Disney.com
- 407.938.2850





Sitatunga

- 28.43 (71) in 10 institutions
- Yellow SSP zoo population increasing
- Least Concern wild population ↓
- Challenges that affect program:
 - Lack of space more holders needed for bachelor groups
 - Genetics improve genetic health
- What can TAG do to help program & improve sustainability?
 - Work with US regulators allowing imports from European collections or wild



- Gil Myers
- National Zoological Park
- myersg@si.edu
- 202.633.3216



Southern lesser kudu

- 58.54 (112) in 19 institutions
- Yellow SSP zoo population stable
- Near Threatened wild population ↓
- Challenges that affect program:
 - Lack of space more holders needed for bachelor Kudu
 - New genetics needed
- What can TAG do to help program & improve sustainability?
 - Help get more institutions on board for holding surplus males.
 - Import new founders from Europe



- Lily Civili
- Saint Louis Zoo
- civili@stlzoo.org
- **314.646.4651**



South African Springbok

- 33.55.1 (89) in12 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population ↑
- Challenges that affect program:
 - More bachelor and breeding herds are becoming available
 - Need new holding institutions
- What can TAG do to help program & improve sustainability?
 - Encourage institutions to consider Springbok in their current or future exhibits as space becomes available
 - Reminder to institutions: please keep transfers within AZA institutions so population can meet target size n=100



- Jessica Scallan
- Tulsa Zoo
- Jessica.scallan@sbcglobal.net
- 918.669.6201



Mountain nyala

- Not managed in zoos
- ISF in situ Focus program
- Endangered wild population ↓
- Challenges that affect wild population:
 - Habitat destruction/over-grazing
 - Competition with livestock & humans
- What can TAG do to help program & improve sustainability?
 - Encourage AZA institutions to support mountain nyala conservation and education programs in Ethiopia



Program Liaison

- Martha Fischer
- Saint Louis Zoo
- fischer@stlzoo.org
- 314.646.4610



Small Antelope Subgroup

Vice Chair, Jeff Holland, jeff.holland@lacity.org



Black duiker

- 13.12 (25) in 7 institutions
- Red SSP– zoo population ↑
- Least Concern wild population ↓
- Challenges that affect program:
 - Lack of institutional holders
 - New genetics needed
 - Need to decrease traumarelated deaths
- Population has increased over the last two years



- Jeff Holland
- Los Angeles Zoo
- Jeff.holland@lacity.org
- 323.644.4220



Blue duiker

- 22.28.1 (51) in 16 institutions
- Yellow Program zoo population ↑
- Least Concern wild population stable
- Challenges that affect program:
 - Need additional institutions
 - Importation needed. Institutions willing to put forth the effort/cost to import are needed.
- What can TAG do to help program & improve sustainability?
 - Encourage AZA institutions to work with this program. Blue duikers are super adorable, cute, and would make a great addition to your collection plan. They can even be exhibited with other animals.





- Sarah Ksiazek
- Dallas Zoo
- alphadawg7@gmail.com
- 469.554.7235



Günther's dik-dik

- 9.4 (13) in 7 institutions
- Red SSP zoo population ↓
- Least Concern wild population stable
- Challenges that affect program:
 - Not breeding in captivity
 - New blood needed
 - Need to determine reason existing pairs are not breeding
 - Transfers and research needed.
- What can TAG do to help program & improve sustainability?
 - Develop import station to import from Africa.
 - Bring in additional animals from Private Sector



- Paige McNickle
- Phoenix Zoo
- pmcnickle@thephxzoo.com
- paagie@yahoo.com
- 602-451-8364



Kirk's dik-dik

- 23.26 .1 (50) in 18 institutions
- Yellow SSP zoo population mostly stable
- Least Concern wild population stable
- Challenges that affect program:
 - Different cytotypes = sterile males
 - Live in pairs not herds
 - More holders needed
 - Need to cytotype unknowns
 - New known genetics needed
- What can TAG do to help program
 & improve sustainability?
 - Assist in determining taxonomic status of identified cytotypes.
 - Bring in and test individuals from private sector, Europe or the wild.

- Paige McNickle
- Phoenix Zoo
- pmcnickle@thephxzoo.com
- paagie@yahoo.com
- **6**02.451.8364





Klipspringer

- 26.28 (54) in 19 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population stable
- Challenges that affect program:
 - It is extremely important for the population, both genetically and demographically, that the population be grown as quickly as possible to the target population size. All females capable of producing offspring should be bred.
- What can TAG do to help program & improve sustainability?
 - Encourage institutions to work with this species



- Michael Lebanik
- Disney's Animal Kingdom
- Michael.g.lebanik.jr@disney.com
- 407.938.2701



Red-flanked duiker

- 21.12 (33) in 12 institutions
- Red SSP- zoo population ↓
- Least Concern wild population ↓
- Challenges that affect program:
 - Lack of space more holders needed
 - New genetics needed
- What can TAG do to help program & improve sustainability?
 - Support possible importation in the near future
 - Encourage institutions to follow recommendations to ensure zoo population increases
 - This species does well in multi-species habitats!



- Nate Oliveira
- Saint Louis Zoo
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- 314.646.4546



Steenbok

- 8.9 (17) in 4 institutions
- Candidate Program zoo population ↑
- Least Concern wild population stable
- Challenges that affect program:
 - Small population size
 - Lack of new institutional interest
 - Recommending institutions hand rear when possible
- What can TAG do to help program & improve sustainability?
 - Assist with marketing of this species to increase zoo spaces to grow program



- Steve Metzler
- Sand Diego Safari Park
- <u>smetzler@sandiegozoo.org</u>
- **760.473.6993**



Yellow-backed duiker

- 48.42.1(91) in 31 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population ↓
- Challenges that affect program:
 - Population is reaching its target size in NA
 - Studbook and SSP are both due to be updated
- What can TAG do to help program
 & improve sustainability?
 - Encourage institutions to work with this species
 - Promote this species for multispecies habitats



- Linda Rohr-Bachers
- Milwaukee County Zoo
- Linda.bachers@milwcnty.com
- **41**4.256.5448



Waterbuck Subgroup

Vice Chair, Randy Rieches, rrieches@sandiegozoo.org



Common waterbuck

- 99.142.12 (253) in 16 institutions
- Yellow SSP zoo population ↓
- Least Concern wild population ↓
- Challenges that affect this program:
 - Lack of known pedigree for genetic management
 - Holding for surplus males
 - Decrease in interest in exhibiting this species
- What can TAG do to help program & improve sustainability?
 - Develop opportunities for multiple males to rotate within herds to enhance genetic diversity
 - Contribute to known pedigree population by encouraging facilities to collect and submit biological samples.
 See program leader for info.



- Jonnie Capiro
- San Diego Zoo Safari Park
- jcapiro@sandiegozoo.org
- 760.738.5582



Nile lechwe

- 61.115.42 (218) in 10 institutions
- Yellow SSP zoo population stable
- Endangered wild population ↓
- Challenges that affect program:
 - Need more holding institutions
 - More bachelor holding required
 - New genetics needed
 - Geographical compartmentalization due to challenges with shipment
- What can TAG do to help program & improve sustainability?
 - Promote the inclusion of this species in collections
 - Work on bringing in additional animals from private sector



Program leader:

- Mike Murray
- Cleveland Metroparks Zoo
- mjm@clevelandmetroparks.com
- **216.635.3312**



Red lechwe

- 6.16 at 2 institutions
- Candidate Program
- Least concern wild population stable
- Challenges that affect program:
 - Need new holders to grow the population
- What can TAG do to help program
 & improve sustainability?
 - Need to identify new holders to take animals in from private institutions



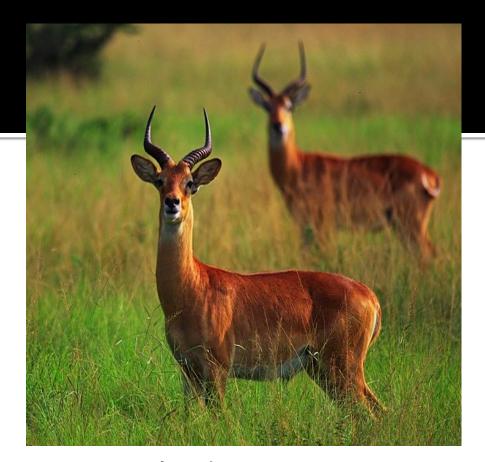
Program leader:

- Mel Covey
- Disney's Animal Kingdom Lodge
- (402) 490-9487
- Melissa.a.covey@disney.com



Uganda kob

- 21.20.2 (43) in 4 institutions
- 3.9 (12) in 1 private institution
- Red SSP
- Least concern wild population stable
- Challenges that affect program:
 - Small zoo population is not sustainable
 - Lack of institutional interest
- What can TAG do to help program
 & improve sustainability?
 - Recruit program leader
 - Need new zoo holders to bring in animals from private institutions to build a sustainable population



Program leader:

Vacant – program leader needed!



Mountain reedbuck

- Not managed in zoos
- ISF in situ Focus program
- Least Concern wild population stable (pop. 36,000)
- Challenges that affect wild population:
 - Over hunting
 - Habitat destruction/over-grazing
 - Competition with livestock & humans
- What can TAG do to help program
 & improve sustainability?
 - Encourage better species monitoring in home ranges



Program Liaison

- Randy G. Rieches
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- **760-738-5015**



Hartebeest Subgroup

Vice Chair, Dan Beetem, dbeetem@thewilds.org



Bontebok

- 30.41.12 (83) in 17 institutions
- Yellow SSP zoo population ↑
- Near Threatened wild population stable
- Challenges that affect this program:
 - Possibility of hybrid animals in population
 - Large number of animals on a private ranch excluded due to unknown genetics
 - New genetics needed
 - Not all females in the population are in a breeding situation
- What can TAG do to help program & improve sustainability?
 - USDA import station to facilitate imports
 - Encourage all facilities holding females to breed



- Lissa McCaffree
- San Diego Zoo Safari Park
- Imccaffree@sandiegozoo.org
- **7**60.492.4486



Jackson's hartebeest

- 13.7 (20) in 5 institutions
- Red SSP zoo population ↓
- Least Concern wild population ↓
- Challenges that affect program:
 - Very small captive population
 - New genetics needed
 - Carrier of MCF virus
- What can TAG do to help program
 & improve sustainability?
 - Help find institutions willing to take on this species and implement breeding programs



- Mollye Nardi
- Zoo Atlanta
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- 404.624.5611



Wildebeest

- 81.123.27 (231) in 22 institutions
- Yellow SSP zoo population ↑
- Least Concern some isolated populations are declining
- Challenges that affect program:
 - Older females not breeding or their calf mortality is increasing
- What can TAG do to help program & improve sustainability?
 - Continue to support genetic testing

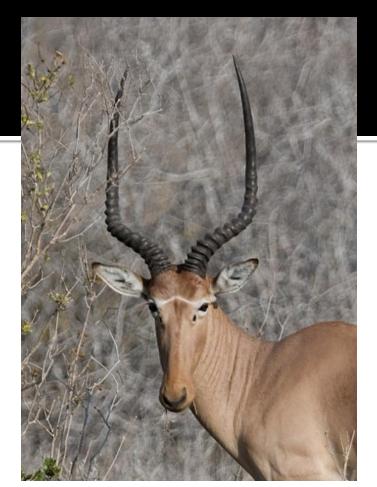


- Kristen Wolfe
- Disney's Animal Kingdom
- Kristen.wolfe@disney.com
- 407.938.2377



Hirola

- Not managed in zoos
- ISF in situ Focus program
- Critically endangered wild population ↓
- Challenges that affect wild population:
 - Predation
 - Habitat destruction/over-grazing
 - Competition with livestock & humans
- What can TAG do to help program & improve sustainability?
 - Encourage AZA institutions to support Hirola Recovery Project in Kenya



Program Liaison

- Martha Fischer
- Saint Louis Zoo
- fischer@stlzoo.org
- **314.646.4610**



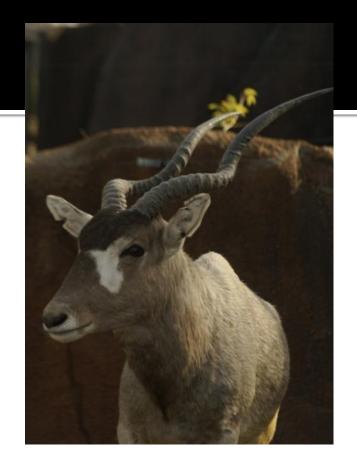
Aridland Antelope, Gazelle & Pronghorn Subgroup

Vice Chair, Adam Eyres, adame@fossilrim.org



Addax

- 87.164 (251) in 22 institutions
- Yellow SSP zoo population ↑
- Critically Endangered ↓
- Challenges that affect program:
 - Lack of space more holders needed
- What can TAG do to help program
 & improve sustainability?
 - Encourage holding institutions to work with bachelor herds



- Bill Houston
- Saint Louis Zoo
- houston@stlzoo.org
- **314.646.4826**



Addra gazelle

- 77.95 (171) in 22 institutions
- Yellow SSP zoo population stable
- Critically endangered wild population ↓
- Challenges that affect program:
 - Need more spaces especially for males.
 - Unrelated animals need to be identified.
- What can TAG do to help program
 & improve sustainability?
 - Encourage institutions to work with this high priority species



- Tim Thier
- tthier@stlzoo.org
- **314.646.4647**



Arabian Oryx 2016

- 38.83 (121) in 8 AZA institutions
- Yellow SSP zoo population 1
- Vulnerable wild population stable
- Challenges that adversely affect program:
 - Males difficult to bachelor group
 - Loss of holding institutions
 - No new genetics
- What TAG can do to help program & improve sustainability?
 - Help with solution for extra males
 - Need facilities to try bachelor groups or house single males
 - More holders- herds available now!



Program Leader

Michelle Hatwood
ISB Keeper & SSP Coordinator

- Audubon Species Survival Center
- mhatwood@auduboninstitute.org
- 504-398-3153

Cuvier's gazelle

- 14.20 (34) in 2 AZA institutions and 1 non- AZA institution
- Yellow SSP zoo population ↓
- Endangered wild population unknown
- Challenges that affect program:
 - Lack of space more holders needed.
 - ♀/♀ aggression has been noted in some collections.
- What can TAG do to help program & improve sustainability?
 - Generate an Antelope mixed species survey/database that can be updated on a regular basis.

[†]Program Leader

- Wendy Enright
- The Living Desert
- Wenright@Livingdesert.org
- 760.346.5694 Ext. 2211





Fringe-eared oryx

- 18.31 (49) in 4 institutions
- Red SSP zoo population ↑
- Near Threatened wild population ↓
- Challenges that affect this program:
 - Lack of space more holders needed
 - New genetics required
 - Need to increase populations size
 - Need for rotating breeding males at each institution
- What can TAG do to help program & improve sustainability?
 - Facilitate import for increased genetic diversity

- Melissa McCartney
- Sacramento Zoo
- <u>mmccartney@saczoo.org</u>
- **-** 760.492.4486





Gemsbok

- 21.58.6 (85) in 10 institutions
- Yellow SSP zoo population ↓
- Least Concern wild population ↓
- Challenges that affect program:
 - Lack of space more holders needed
 - Lack of known pedigree and individual IDs
 - Need for rotating breeding males at each institution
- What can TAG do to help program & improve sustainability?
 - Facilitate import (poss. White Sands) to increase genetic diversity



- Melissa McCartney
- Sacramento Zoo
- mmccartney@saczoo.org
- 760.492.4486



Grant's gazelle

- 12.33 (45) in 9 institutions
- Yellow SSP zoo population stable
- Least Concern wild population ↓
- Challenges that affect program:
 - Lack of available animals
 - Unknown pedigrees
- What can TAG do to help program & improve sustainability?
 - Help develop a plan to deal with the large amount of UNK data in this population
 - Help program meet zoos' demands for animals



- Allison Suda
- Roosevelt Park Zoo
- <u>asudarpz@srt.com</u>
- **701.857.4166**



Peninsular Pronghorn

- 20.13 (23) in 7 institutions
- Red SSP
- Endangered wild population ↑
- Challenges that affect program:
 - Small captive population in need of imports
 - Loss of animals to Epizootic Haemorrhagic Disease and Blue Tongue
- What can TAG do to help program & improve sustainability?
 - Support for EHD and BT vaccine (LA ZOO)
 - Support for Peninsular Pronghorn
 Recovery Project in Baja Ca Sur 2015



- Melodi Tayles
- San Diego Zoo Safari Park
- mtayles@sandiegozoo.org
- **-** 760.855.1911



Red-fronted gazelle

- 13.19 (32) in 1 institution
- Red SSP
- Vulnerable wild population ↓
- Challenges that affect program:
 - Single holder, few founders, erratic breeding
- What can TAG do to help program & improve sustainability?
 - Promote species to find new holders
 - Encourage support of field conservation of this species through Sahara Conservation Fund



- Lanny Brown
- Nashville Zoo
- Lbrown@nashvillezoo.org



Scimitar-horned oryx

- 83.139.3 (227) animals in 19 institutions
- Yellow SSP zoo population ↑
- Extinct in the Wild
- Challenges that affect this program:
 - Lack of space/holders needed
 - Male-male aggression
 - Three species rule (USFWS)
- What can TAG do to help program & improve sustainability?
 - Support repatriation/reintroduction efforts
 - Facilitate importation of unrelated animals

- Sheri Horiszny
- Santa Barbara Zoo
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Soemmerring's gazelle

- 20.24 (44) in 8 institutions
- Red SSP- zoo population mostly stable
- Vulnerable wild population ↓
- Challenges that affect program:
 - Lack of space/ more holders needed
 - Genetics/high infant mortality
- What can TAG do to help program
 & improve sustainability?
 - Support genetic studies to improve breeding success
 - Need new imports

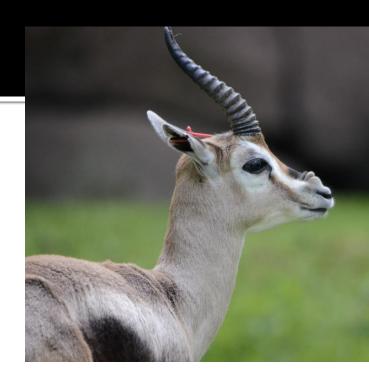


- Stacey Konwiser
- Palm Beach Zoo
- <u>skonwiser@palmbeachzoo.org</u>
- 561-533-0887



Speke's gazelle

- 21.37 (58) in 11 institutions
- Yellow SSP zoo population ↓
- Endangered wild population ↓
- Challenges that affect program:
 - Lack of space more holders needed
 - New genetics needed
- What can TAG do to help program
 & improve sustainability?
 - Develop import station so Speke's gazelles could be imported from Al Ain Zoo in UAE 2016



- Christy Poelker
- Saint Louis Zoo
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- **314.646.4651**



Slender-horned gazelle

- 33.45 (78) in 10 institutions
- Yellow SSP zoo population ↑
- Endangered wild population ↓
- Challenges that affect program:
 - Lack of space more holders needed
 - New genetics needed
- What can TAG do to help program
 & improve sustainability?
 - Develop import station so Slender-horned gazelles could potentially be imported from collections in North Africa & Middle East



- Program Leader
- Brigid Randle
- Living Desert Zoo
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- 760.346.5694 ext 2200



Thomson's gazelle

- 64.116.1 (181) in 17 AZA institutions &
 1 non-AZA institutions
- Yellow SSP zoo population steady
- Near Threatened wild population ↓
- Challenges that affect program:
 - Highly unknown population
 - New genetics needed
- What can TAG do to help program & improve sustainability?
 - Encourage holders to give up females short-term to benefit the population (and their herds) long-term.



- Lanny Brown
- Nashville Zoo
- Ibrown@nashvillezoo.org



Saiga

- Not managed in zoos
- ISF in situ Focus program
- Critically Endangered wild population ↓
- Challenges that affect wild population:
 - Poaching for horns and meat
 - Competition with livestock & humans
 - Habitat destruction/over-grazing
- What can TAG do to help program
 & improve sustainability?
 - Encourage AZA institutions to support saiga conservation projects in Russia and Central Asia



Program Liaison

- Dan Beetem
- The Wilds
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- 740.638.5030 ext 2110



Giraffe/Okapi Subgroup





Masai giraffe

- 44.58 (102) in 27 institutions
- Yellow SSP zoo population slightly ↑
- Least Concern wild population ↓
- Challenges that affect this program:
 - Rising levels of inbreeding
 - New genetics needed, but none available
 - The birth of 19.4 births in 2011-2012 has resulted in a current scarcity of young females.
- What can TAG do to help program & improve sustainability?
 - Continue to encourage the already remarkably high levels of cooperation among these holders.



- Laurie Bingaman Lackey
- ISIS
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- +1 828.693.4336



Retic/Roth giraffe

- 147.251.24 neutered males (422) in 84 institutions
- Green SSP zoo population stable-to-slightly ↑
- Least Concern wild population ↓
- Challenges that affect this program:
 - If zoos decide to transfer animals to non-AZA facilities, then there will potentially not be sufficient young animals to meet AZA needs.
 - Inability to move animals due to feeding platform issues.
- What can TAG do to help program & improve sustainability?
 - Encourage zoos to focus on other antelope species the giraffe population is twice the size necessary for genetic or demographic sustainability and growing steadily. Devote some of these resources to other programs.



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Okapi

- 54.53 (107) in 28 institutions (incl.
 Japan and Al Bustan)
- Yellow SSP zoo population stable
- Near Threatened wild population
 in unprotected areas
- Challenges that affect program:
 - Always looking for more holders!
 - Genetic exchanges needed
- What can TAG do to help program
 & improve sustainability?
 - Improve ability to import



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2016 Midyear Meeting Program Updates

AZA Buffalo, Bison, Cattle and Camelid TAG

Chair, Lisa Smith, Ismith@gpzoo.org



Wild Cattle and Camelid TAG

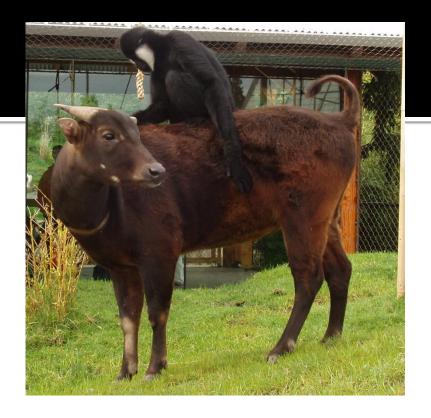
- Welcome to the new steering committee members:
 - Jeff Holland, Mike Quick, Amy Roberts, Tony Fischer, Andy Blue, Dan Beetum, Jordan Schimming, Curt Coleman, Telena Welsh, Richard Rosevear, Denise Ibarra, Darrel Markum, and Joshua Patrick
- Looking for Banteng or Bison there are animals out there needing immediate placement – just contact Lisa Smith for more information
- Recent TAG accomplishments:
 - African Savannah Buffalo upgraded from Candidate Species to Yellow SSP.
 - Congratulations to Joshua Patrick Gaur Candidate Program Coordinator
- Current TAG initiatives include:
 - Championing a Bison initiative to get interested institutions to DNA test their American Bison. Contact Tony Fischer if interested: Tony.Fisher@state.mn.us
 - ACTION INDONESIA: Participation in the Global Species Management Plans for Banteng and Anoa
 - IUCN Asian Wild Cattle Specialist Group Conservation Projects
 - Saola Working Group: www.SavetheSoala.org
- Greatest Challenge for this TAG is Sustainability due to lack of space and interest most species are currently well below any hope of sustainability under current conditions. We are desperately looking to change that where we can. Any ideas and suggestions are welcome!



- Lisa Smith, TAG Chair
- Great Plains Zoo
- Ismith@gpzoo.org
 - 605.367.8313 ext. 119

Anoa

- 4.6 (10) in 7 AZA institutions
- ~140 in 3 private institutions
- Yellow SSP zoo population ↓ (overall, pop in NA ↑)
- Endangered wild population ↓
- Challenges that affect program:
 - Lack of space more holders needed
- What can TAG do to help program & improve sustainability?
 - Encourage AZA institutions to step up and commit to conserving anoa and other wild cattle through participation in the SSP



- Telena Welsch
- Point Defiance Zoo and Aquarium
- Telena.Welsch@pdza.org
- 253.404.3684



Banteng Cadidate Program

 Animals are available for immediate placement; Call Curt for more information.

Your help could save me from extinction!



- Curt Coleman
- The Wilds
- ccoleman@thewilds.org
- 740.638.5030 ext. 2804

Gaur Candidate Program



- Joshua Patrick
- Zoo Miami
- jospat@miamidade.gov
- 305.251.0400

African Savannah Buffalo

- 21.37.1 (59) in 6 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population ↓
- Challenges that adversely affect program:
 - Loss of holding institutions
 - Need to improve genetic diversity
- What TAG or Institutions can do to help program & improve sustainability?
 - New holding institutions
 - Include this weather hearty species in collection planning
- Congratulations to Jordan for getting the studbook completed and working with the PMC to get the program upgraded to a Yellow SSP!



- Jordan Schimming
- Denver Zoo
- jschimming@denverzoo.org
- **720.337.1614**

American Bison Candidate Program

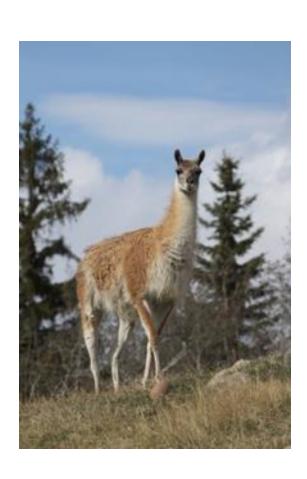
The TAG is championing an initiative to get interested institutions to DNA test their American Bison and potentially partner with National Parks and others for reintroduction efforts. Contact Tony Fischer if you need info on how to test your herd:

Tony.Fisher@state.mn.us



- Richard Rosevear
- Leigh Valley Zoo
- Rrosevear@lvzoo.org
- 610.799.4171

Guanaco Candidate Program



- Denise Ibarr
- Abilene Zoo
- Denise.ibarra@abilenetx.com
- **325.280.1939**

Bactrian Camel Candidate Program



- Darrel Markum
- Idaho Falls Zoo at Tautphaus Park
- dmarkum@idahofallszoo.org
- 208.612.8419

2016 Midyear Meeting Program Updates

AZA Caprinae TAG

Chair, Jeff Holland, jeff.holland@lacity.org



Chinese goral

- 14.13 (27) in 11 institutions
- Red SSP zoo population stable ↓
- Vulnerable wild population ↓
- Challenges that affect program:
 - Decline in breeding resutls
 - Aging population
 - New genetics needed
- What can TAG do to help program & improve sustainability?
 - Work with US regulators allowing imports from the European collections or wild



- Gil Myers
- National Zoological Park
- myersg@si.edu
- 202.633.3216



Desert bighorn sheep

- 23.39(66) in 7 institutions *
- Yellow SSP zoo population stable
- Least Concern wild population stable
- Challenges that affect program:
 - Lack of space
 - New genetics needed
- What can TAG do to help program & improve sustainability?
 - More holders needed
 - Consider replacing Ovis canadensis canadensis with O. c. nelsoni



- Maureen McCarty
- The Living Desert
- mmccarty@livingdesert.org
- 760.346.5694 ext. 2620



Kordofan aoudad

- 13.25 (38) in 3 institutions
- Red SSP zoo population ↓
- Vulnerable wild population ↓
- Challenges that affect program:
 - Lack of space/more holders needed
 - New genetics needed
- What can TAG do to help program & improve sustainability?
 - Promote the species to AZA



- Dana Caton
- Bronx Zoo
- dcaton@wcs.org
- 678.591.1846



Nubian ibex

- 22.40 (62) in 9 institutions
- Red SSP New Studbook ↓
- Vulnerable wild population ↓
- Challenges that adversely affect program:
 - Lack of space more holders needed
 - New genetics needed
- What can TAG do to help program & improve sustainability?
 - Work with European Population
 Manager to import new genetics
 - Institutional support needed for Dr.
 Omar Attum's research: Establishing a population monitoring program in Egypt (contact Dr. Attum at oattum@ius.edu)



- Alison Mott
- Sacramento Zoo
- amott@saczoo.org
- 916.808.8559



Sichuan takin

- 69.61.3 (132) in 23 institutions
- Yellow SSP zoo population ↑
- Vulnerable wild population ↓
- Challenges that adversely affect program:
 - Lack of space more holders needed
 - New genetics needed
- What can TAG do to help program & improve sustainability?
 - Assist with importations/exportations from Europe and Asia.
 - Help recruit new institutions



- Program Leader
- Dave Bernier
- Lincoln Park Zoo
- dbernier@lpzoo.org
- 312.742.2374



Tadjik markhor

- 101 in 10 AZA institutions
- 1.9 (16) in 1 CAZA institutions
- Yellow SSP zoo population ↑
- Endangered wild population \downarrow
- Challenges that affect this program:
 - Lack of spaces (Need Holders)
 - New genetics needed
 - Current Research
 - Genome mapping of populations
- What can TAG do to help program & improve sustainability?
 - Survey and Conservation work in Tajikistan
 - Markhor Conservation through Community Based Management in Gilgit-Baltistan, Pakistan, for C. f. falconeri



- Tom LaBarge
- Rosamond Gifford Zoo <u>ThomasLaBarge@ongov.net</u>
- 315.435.8511 ext 117



2014 Midyear Meeting Program Updates

AZA Cervid TAG

Chair, Michelle Hatwood,

mhatwood@auduboninstitute.org



Bactrian wapiti

- 13.30.5 (48) in 2 institutions
- Red SSP zoo population ↑
- Least Concern
 - Bactrianus ssp. Increasing in central Asia due to field conservation efforts
- Challenges that affect this program:
 - Small population with low gene diversity
 - Just another "brown deer" mentality in zoos
 - CWD restrictions affect transfers
- What can TAG do to help program & improve sustainability?
 - Increase holding space to allow annual breeding to sustain species
 - Imports from EAZA are possible if interest warrants the effort

- Curt Coleman
- The Wilds
- ccoleman@thewilds.org
- 740.638.5030





Barasingha

- 20. 35(55) in 4 institutions
- Yellow SSP zoo population ↑
- Vulnerable wild population ↓
- Challenges that affect this program:
 - Lack of space/holders needed
 - CWD monitoring and regulations
- What can TAG do to help program & improve sustainability?
 - Investigate additional space

- Matt Gelvin
- San Diego Zoo Safari Park
- mgelvin@sandiegozoo.org
- **760-622-5026**





Barbary stag

- 3.43 (46) in 1 institution
- Red SSP zoo population ↓
- Least Concern
 - Barbarus ssp. declining in Africa
- Challenges that affect this program:
 - Lack of space / holders needed
- What can TAG do to help program
 & improve sustainability?
 - More institutions needed to sustain this species
 - Imports not possible from other captive programs -ISIS

- Michael Langridge
- San Diego Zoo
- SDwildlife1976@yahoo.com
- **6**19.231.1515





Calamian deer

- 6.4 (10) in 3 institutions
- Red SSP zoo population ↓
- Endangered wild population ↓
- Challenges that affect this program:
 - Low reproductive success
 - Captive population declining fast
 - New genetics required
- What can TAG do to help program
 & improve sustainability?
 - USDA import station to facilitate imports

- Robin Noll
- Los Angeles Zoo
- Robin.noll@lacity.org
- **323.644.4125**





Chilean Pudu

- 14.31 (45) in 15 institutions
- Red SSP zoo population ↑
- CITES I; IUCN Vulnerable wild population ↓
- Breeding and Transfer plan published November 2015
- Challenges that affect program:
 - New genetics needed (possible future import)
- What can TAG do to help program & improve sustainability?
 - Develop collaborative in country pudu rehabilitation program with Chile or EAZA.



- Penny Kalk
- Bronx Zoo
- pkalk@wcs.org
- **718.220.7113**



Elds deer

- 22.41 (63) in 6 institutions
- Yellow SSP zoo population ↓
- Endangered wild population ↓
- Qualified in the top 100 of the AZA SAFE list
- Challenges that affect this program:
 - Lack of space/holders needed
 - Population isolation, movement restrictions due to CWD
- What can TAG do to help program & improve sustainability?
 - Increase holders and space
 - Help Facilitate embryo imports from Thailand and animal imports/exports with EAZA to infuse new genetics

- Dolores Reed
- Smithsonian Conservation Biology Institute
- reeddm@si.edu
- 540.635.6524





Malayan chevrotain

- 16.13 (29) in 9 institutions
- Red SSP zoo population ↓
- Least Concern wild population ↓
- Challenges that affect this program:
 - New genetics required
- What can TAG do to help program & improve sustainability?
 - More breeding institutions needed that can hold multiple offspring

- Dave Powell
- Bronx Zoo
- dpowell@wcs.org
- **718.220.5162**





Moose

- 14.33 (47) in 12 institutions
- Red SSP zoo population ↑
- Stable wild population, but declining in Minnesota
- Challenges that affect program:
 - CWD prohibits many zoos from accepting wild orphans
 - Husbandry has improved but more work is needed
- What can TAG do to help program & improve sustainability?
 - Coordinate captive breeding efforts to meet CWD restrictions in all states
 - Provide advice on husbandry challenges



- Tony Fisher
- Minnesota Zoo
- Tony.fisher@state.mn.us
- 952.431.9275



Pere David's deer

- 47.61.1 (109) in 11 institutions
- Yellow SSP
- Extinct in the Wild
- Challenges that affect this program:
 - Coordinate breeding efforts
- What can TAG do to help program & improve sustainability?
 - Facilitate CWD surveillance for transfer of animals

- Elizabeth Schille
- Disney Animal Kingdom
- Beth.schille@disney.com
- 407.938.3201





Red brocket deer

- 8.5 (13) in institutions (2 AZA, 2 non-AZA)
- Red SSP zoo population ↓
- Wild population decreasing ↓
- Challenges that affect this program:
 - Genetic research needed to determine taxonomy and range of temama and americana
 - Low number of females, need private facilities to help
- What can TAG do to help program & improve sustainability?
 - Imports
 - Find other private facilities that may have them in the US

- Jennifer Archibeque
- Happy Hollow Zoo and Park
- Ja.ziegelmeyer@gmail.com
- 661.645.6839





Siberian musk deer

- 10.5 (15) in 4 institutions
- 8.14 (22) in 1 private ???
- Candidate Program zoo population stable
- Vulnerable wild population ↓
- Challenges that affect this program:
 - Wild population may be listed as endangered soon
 - Need more institutional holders
 - Can only hold in cool climates
- What can TAG do to help program & improve sustainability?
 - Expand number of holding institutions of this unique and rare ungulate
 - Import/trade from EAZA

- Matt Ardaiolo
- Denver Zoo
- mardaiolo@denverzoo.org
- **720.337.1669**





Western tufted deer

- 38.25 (63) in 18 institutions
- Yellow SSP zoo population ↓
- Near Threatened wild population ↓
- Challenges that affect this program:
 - Extra males
 - New genetics may be needed in the future
- What can TAG do to help program & improve sustainability?
 - USDA import station to facilitate imports

- Steve Castillo
- Disney Animal Kingdom
- Steve.castillo@disney.com
- 407.938.2335

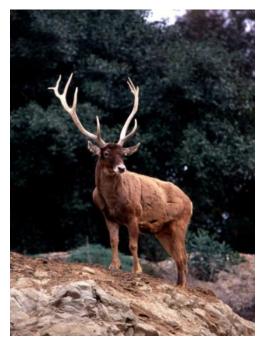




White-lipped deer

- 12.15 (27) in 3 institutions
- Red SSP- zoo population ↓
- Vulnerable wild population ?
 - May be increasing?
- Challenges that affect this program:
 - Development of bachelor herds
 - CWD issues impacting movement of larger cervids more than smaller species
- What can TAG do to help program & improve sustainability?
 - Increase interest and space
 - Coordinate captive breeding efforts to meet CWD restrictions in all states

- Steve Castillo
- Disney Animal Kingdom
- Steve.castillo@disney.com
- 407.938.2335





Reeve's Muntjac

- 77.77.7 (161) at 51 institutions
- Red SSP zoo population ↑
- Least Concern wild population ↓
- First studbook will be published by Jan. 2017
- Challenges that affect this program
 - Need to produce a studbook
- What can the TAG do to help improve the program & sustainability issues?
 - Support coordinated breeding and transfers to minimize genetic diversity loss

- Program Leader
 - Jennifer Webb
 - Zoo Atlanta
 - jwebb@zooatlanta.org
 - 404.624.5873



2016 Midyear Meeting Program Updates

AZA Equid TAG

Chair, Tim Thier, tthier@stlzoo.org



Asian wild horse

- 62.72(134) in 22 institutions
- Yellow SSP zoo population stable
- Endangered wild population ↑
- Challenges that affect program:
 - Compliance with SSP recommendations
 - Zoos reluctant to hold bachelor groups
- What can TAG do to help program
 & improve sustainability?
 - Encourage institutional cooperation
 - Support reintroduction projects in China, Kazakhstan and Mongolia



- Tony Fisher-SSP
 - Minnesota Zoo
 - tony.fisher@state.mn.us
 - 952.431.9275
- Dave Powell Studbook
 - Bronx Zoo
 - dpowell@wcs.org
 - **718.220.5162**



Grevy's zebra

- 62.111.1 (174) in 38 institutions
- Green SSP zoo population stable
- Endangered wild population stable
- Challenges that affect program:
 - Due to space constraints it is important to identify additional holding institutions
 - Male holding space is an SSP priority. Zoos with breeding herds need to be able to house male offspring for 2-4 years
 - Facilities separating stallions should include outdoor access
- What can TAG do to help program & improve sustainability?
 - TAG recommendation Zoos with Plains zebras in single-species exhibits are urged to replace them with Grevy's Zebras



- Martha Fischer
- Saint Louis Zoo
- fischer@stlzoo.org
- **314.646.4610**



Hartmann's mountain zebra

- 30.64 (94) in 12 institutions (10 AZA and 2 non-AZA)
- Yellow SSP zoo population stable
- Vulnerable— wild population
- Challenges that affect program:
 - Low population numbers.
- What can TAG do to help program & improve sustainability?
 - Encourage more institutions to switch exhibits to Hartmann's.
 - Seek out private holders to join the SSP.



- Vacant
- If interested send applications to Tim Thier tthier@stlzoo.org



Persian onager

- 10.24 (34) in 3 institutions
- Red SSP- zoo population stable
- Endangered wild population stable
- Challenges that affect program:
 - Lack of space more holders needed
 - Genetics new genetics needed
- What can TAG do to help program & improve sustainability?
 - Consider managing onagers and kulan as a single population instead of separate sub-species to allow "hybrids" and animals of lesser known pedigrees into the program



- Kate Volz
- National Zoological Park
- volzk@si.edu
- **2**02.633.3216



Plains zebra

- 80.203.1(284) in 69 institutions
- Yellow SSP zoo population stable
- Least Concern wild population stable
- Challenges that affect program:
 - Small number of viable males
- What can TAG do to help program & improve sustainability?
 - Keep viable males intact for breeding recommendations
 - Possible bachelor herd facilities



- John Register
- Houston Zoo
- jregister@houstonzoo.org
- **713.533.6682**



Somali wild ass

- 21.35 (56) in 9 institutions
- Yellow SSP zoo population ↑
- Critically Endangered wild population ↓
- Challenges that affect program:
 - Lack of space more holders needed
 - Institutions need to be prepared to hold offspring in reserve for this program for at least 2 years (and sometimes longer)
- What can TAG do to help program
 & improve sustainability?
 - Increase holding institutions to meet target population



- Tim Thier
- Saint Louis Zoo
- tthier@stlzoo.org
- 314.646.4647



2016 Midyear Meeting Program Updates

AZA Wild Pig, Peccary and Hippo TAG

Chair, Martin Ramirez, Martin.Ramirez@Zoo.org



Babirusa

- 60 animals in 15 institutions
- Yellow SSP zoo population stable
- Vulnerable wild population stable
- Indonesian Initiative Species
- Births outpacing deaths
- Being considered as a GSMP
- SSP is exporting 3.2 to EAZA



Program Leader

- Jeff Holland
- Los Angeles Zoo
- jeff.holland@lacity.org
- 323.644.4220

Studbook Keepeer

- Joe Forys
- Audubon Zoo
- jforys@auduboninstitute.org



Chacoan peccary

- 22.34.1 (57) in 12 institutions
- Yellow SSP zoo population ↑
- Endangered wild population ↓
- Challenges that affect this program:
 - New institutions needed
- What can TAG do to help program
 & improve sustainability?
 - Encourage institutions to ship out collared peccaries and replace them with Chacoan peccaries



- Dennis Meritt
- dmeritt@depaul.edu
- 773.325.4937



Collared peccary

- 22.19.1 (42) in 13 institutions
- Red SSP zoo population ↓
- Least Concern wild population stable
- What can TAG do to help program
 & improve sustainability?
 - Ship out your collared peccaries and replace them with Chacoan peccaries
 - Do not breed your collared peccaries.
 - We have three female javelina that are over 10 years old that need to be placed to make room for Chacoan peccaries.



Photo By: Megan Spooner

- Jim Haigwood
- Los Angeles Zoo
- Jim.haigwood@lacity.org
- **3**23.644.4213



Common warthog

- 71.74.2 (147) in 45 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population stable
- Interim Breeding and Transfer plan sent to holders to address immediate needs/wants February 2016
- New holders always welcome so we can grow the population!!!
- Challenges that affect this program:
 - Inbreeding lack of unrelated adult animals/ New genetics required – must come from known lineages to be helpful
 - High infant mortality
 - Some institutions not following breeding recommendations and others not willing to hold young for a year
 - Institutions not being clear as to what they want when requesting animals/changes
- What can the TAG /holders do to help improve the program & sustainability issues?
 - Import new <u>known</u> genetics!
 - Increase holding capacity when building new or renovating exhibits/holding areas



- Lisa Smith
- Great Plains Zoo
- Lsmith@gpzoo.org
- 605.367.8313 ext 19



Red river hog

- 96.105.5 (206) in 56 institutions
- Yellow SSP zoo population ↑
- Least Concern wild population ↓
- Challenges that affect this program:
 - Red River Hogs are taking up valuable space for the more endangered pig and peccary species (Babirusa, Visayan Warty Pig, and Chacoan Peccary)
 - Starting to look at reproductive issues with some pairs



- Jeff Holland SSP
 - Los Angeles Zoo
 - Jeff.holland@lacity.org
 - 323.644.4220
- Peter Burvenich Studbook
 - Rolling Hills Zoo
 - peter@rollinghillszoo.org



River hippopotamus

- 37.60.1 (98) in 37 institutions
- Yellow SSP zoo population stable
- Vulnerable wild population ↓
- Challenges that affect this program:
 - Surplus males
 - Breeding is constrained by the limited number of formed breeding pairs
- What can TAG do to help program & improve sustainability?
 - Institutions are encouraged to plan for additional holding and breeding space
 - New institutions or institutions interested in housing additional animals should contact the SSP coordinator



- John Davis
- Riverbanks Zoo
- Jdavis@riverbanks.org
- 803.978.1062



Pygmy Hippopotamus

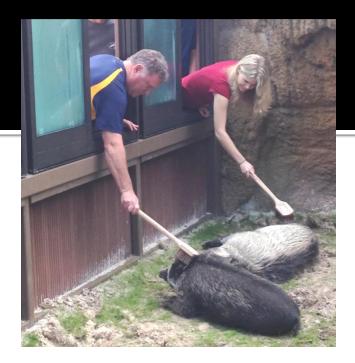
- 15.18 (33) in 15 institutions
- Red SSP zoo population slowly ↑
- Endangered wild population ↓
- 14.35.2 held by 1 non-AZA facility
 - Working to develop partnership
 - All animals are in the studbook
- Challenges that adversely affect program:
 - Female-biased sex ratio
 - Lack of space need new institutions
- What TAG can do to help program & improve sustainability?
 - Help recruit new institutions and encourage them to support Pygmy Hippo in situ projects.



- Christie Eddie Yellow SSP
 Coordinator and Studbook Keeper
- Omaha's Henry Doorly Zoo and Aquarium
- <u>christiee@omahazoo.com</u>
- 402-557-6932

Visayan warty pig

- 34.41 (75) in 18 institutions
- Yellow SSP zoo population ↑
- Critically Endangered wild population ↓
- Challenges that affect this program:
 - Potential that females are shutting down following relatively short periods of being in non-reproductive situations.
 - Have had some aggression issues in single sex groups
- What can TAG do to help program & improve sustainability?
 - Still planning to request more support from holders for in-situ conservation projects
 - San Diego Zoo now exhibits them with Malayan Tapir
 - VIP brushing experience!



- Craig Miller SSP Coordinator
 - Jacksonville Zoo and Gardens
 - millerc@jaxzoo.org
 - 904.757.4463 x136
- Stephanie DeYoung Studbook Keeper
 - Sponsored by San Diego Zoo
 - zoopersteph@yahoo.com

