









The future of rare bactrian deer in EAZA

Jan Mengr¹, Jan Pluháček^{2,3}, Aneta Břízová⁴, Francisco Ceacero¹

Contact: Jan Mengr: mengr@ftz.czu.cz





Introduction:

The Bactrian deer (Cervus hanglu bactrianus) is a lowland subspecies of Tarim red deer native to Central Asia. Because of the Least Concern conservation status, the EAZA population is serving as an ensurance

The EEP has a well known pedigree and a studbook containing 661 individuals from 35 institutions from 1944 until present (Fig. 1) is now endangered because of the decreasing trend (Fig 2.), problematic age structure (Fig. 3) and unclear population development predictions (Fig. 4).

建设的现在分词	
Population Size (Dec 2019)	30.31.2 = 63
Founders	6
Percent Pedigree Known	72%
Gene Diversity	0.7443
Gene Value	0.7404
Mean Inbreeding	0.2337
Population Mean Kinship	0,2557

Census

Restricted to: Locations != PUBLIC, PRIVATE AND No restrictions by UDF

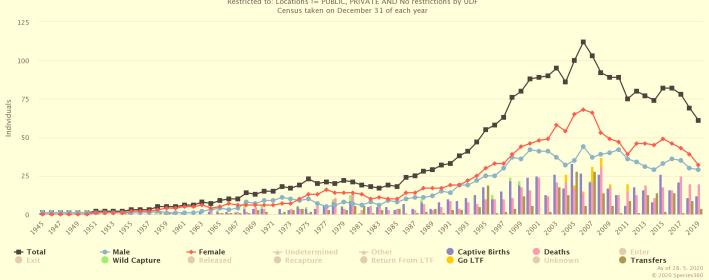


Fig. 2: The EAZA insurance population was growing for a long time but it is showing a decreasing trend in the last decade instead of being stable

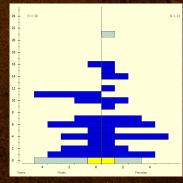
What can be done for the population?

- Finding more participating institutions.
- Cooperation with non-EAZA zoos willing to keep bachelor groups.
- Research to improve the husbandry.









Aims for ongoing research:

Our aim is to find out which biological, ethological, genetic and environmental factors are affecting the sex ratio and survival in captive ungulate populations. This will help to develop a more efficient way of managing ex situ populations thru Best practice guide-lines for the EAZA programme deer species.

