University of Northern Iowa

UNI ScholarWorks

Annual Graduate Student Symposium

2018 Annual Graduate Student Symposium

Apr 3rd, 11:00 AM - 1:30 PM

Elephants of the Pink City, Jaipur, India: A Study of the Captive Elephant Welfare and Management Practice in Ex-Situ **Environmental Conditions**

Ayan Sasmal University of Northern Iowa

Let us know how access to this document benefits you

Copyright ©2018 Ayan Sasmal

Follow this and additional works at: https://scholarworks.uni.edu/agss



Part of the Nature and Society Relations Commons

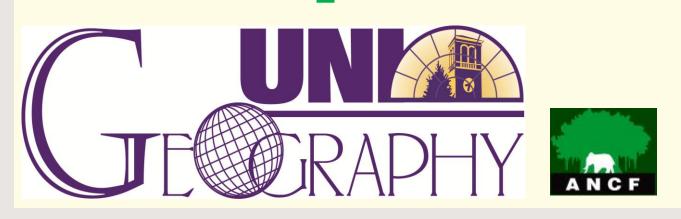
Sasmal, Ayan, "Elephants of the Pink City, Jaipur, India: A Study of the Captive Elephant Welfare and Management Practice in Ex-Situ Environmental Conditions" (2018). Annual Graduate Student Symposium.

https://scholarworks.uni.edu/agss/2018/all/19

This Open Access Poster Presentation is brought to you for free and open access by the Student Work at UNI ScholarWorks. It has been accepted for inclusion in Annual Graduate Student Symposium by an authorized administrator of UNI ScholarWorks. For more information, please contact scholarworks@uni.edu.

Offensive Materials Statement: Materials located in UNI ScholarWorks come from a broad range of sources and time periods. Some of these materials may contain offensive stereotypes, ideas, visuals, or language.

Elephants of the Pink City, Jaipur, India: A study of the captive elephant welfare and management practice in ex-situ environmental conditions



Ayan Sasmala*, Andrey N Petrova, Surendra Varmab

a. Department of Geography, University of Northern Iowa; b. Asian Nature Conservation Foundation, NGO (India).



Abstract

Although the arid Rajasthan desert is far from native elephant habitat, captive elephants (*Elephas* maximus) are managed by some private owners in Jaipur. The semi-arid Jaipur experiences a very hot summer and an extreme cold winter. Along with this, improper management practice and tremendous work load has changed the captive elephant normal life drastically. This study aims to identify the gaps in the management practice of captive elephants. A total of 72 captive elephants were studied in Jaipur. Result showed deviation in normal condition: a restricted diet, no free ranging, and lack of mobility (caused stereotyped behaviour) had adversely affected the captive elephants life. In addition, 98.6 % of elephants had sole crack, 61.1 % had nail crack, 77.8 % had corneal opacity, and 4.16% had corneal ulceration. All the captive elephants had some injuries on their body and forehead. Furthermore, the elephant keepers lack in basic knowledge, their mean duration of stay with the elephants is 5.36 years and 27.0% elephant handler needed training for handling elephants. Additionally, the mahouts are poor, 97.1% are illiterate and receive approx. \$350-430 annually albeit have 3-12 persons in each family. They are sometimes addicted to drugs and alcohol that negatively effects the elephants life.

Introduction



Elephants being not an indigenous species of Rajasthan were brought from different parts of the country for the purpose of hunting, processions and war activities during the Mughals empire but in 21st century they are mainly used for entertaining tourists (Madhulal, 2008).

Elephants under direct human control condition when they are wild-caught and maintain in captivity (Varma et al., 2008).



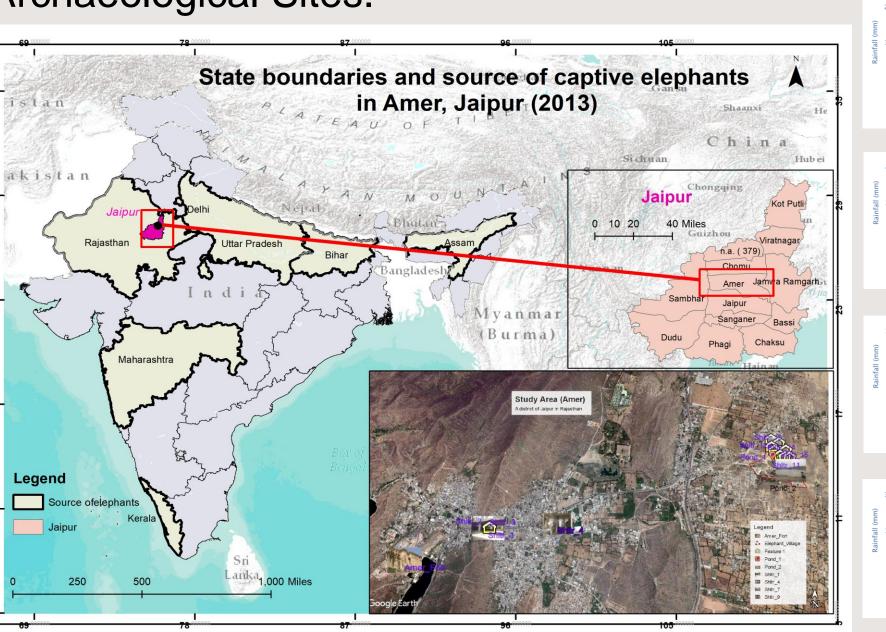
- Documentation of the individual captive elephant profile and understanding the captive elephant management practice in Jaipur.
- Measuring the socio-economic and professional status of elephant handlers (mahout/ kavadi) as well as their relationship with the animal in terms of their experience.

Data was collected through daily observation and conducting interviews with mahout and elephant owner in the institution.

Welfare status of the captive elephants was measured by comparing physical/ physiological/ social and psychological features in captivity with those find in the wild. Different parameters and sub-parameters assigned by elephant experts from different parts of the world were consider.

Study Area

Jaipur located in the eastern border of Thar Desert is the capital of Rajasthan famous for Elephant Ride and Archaeological Sites.











Shelters were closed type having either cement roof or presence of

Shelter

Results

asbestos. Floors were built with a mixture of cement, mud and/ stones. Thus both the conditions were unsuitable for a wildly caught species. Hygiene inside shelter were not well maintained.

Food & Water Provision

Elephants in Jaipur gets only Jowar (Hordeum vulgare), Alfa alfa grass (Medicoga sativa), Chapati made of wheat and Sugarcane (Saecaharum officinarum) to feed. Rarely Bajra (Pennisetum typhoides) was provided as a substitute to Jowar. Feeding times were 6:00hrs, 12:00hrs, 17:00hrs and 21:00hrs respectively.

Elephants were not regularly bathed. The bathing places were the *Pilkhanas* (shelter/ feeding place) or ponds.

Insufficient quantity of food and water could negatively affect the captive elephants health condition in Jaipur.

Sleep, Walk, Chaining & Social Interaction

Sleeping duration was 3-4 hours per day in chained condition. Walk and work were same for these elephant with no scope of free ranging. Interactions occurs only during the working time. Elephants walk on hot-tar roads for long hours during summer

carrying heavy loads on their back.







Behaviour & Reproduction

■ Duration spent by handler with current

Handlers Experience

Beside the age that affect the temperament of the captive elephants having a R squared of 0.48 and pvalue of 0.37 shows a statistically significant relationship between elephant duration of stay in Jaipur along with the current handler and their experience in handling captive elephant. Reproduction success was nil in this type of condition.

Health & Medical Check-up

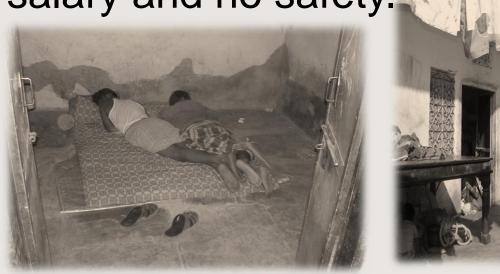
Veterinary doctor was available but the frequency of the doctor's visit was twice in a year.





Socio-economic status of Handlers

Handlers experience a poor quality life with meager salary and no safety.



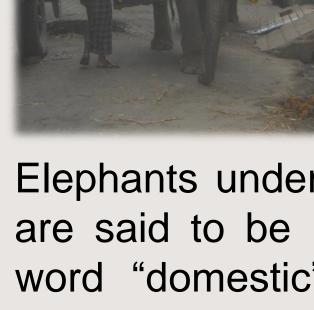
Overall living conditions showed a substantial deviation from

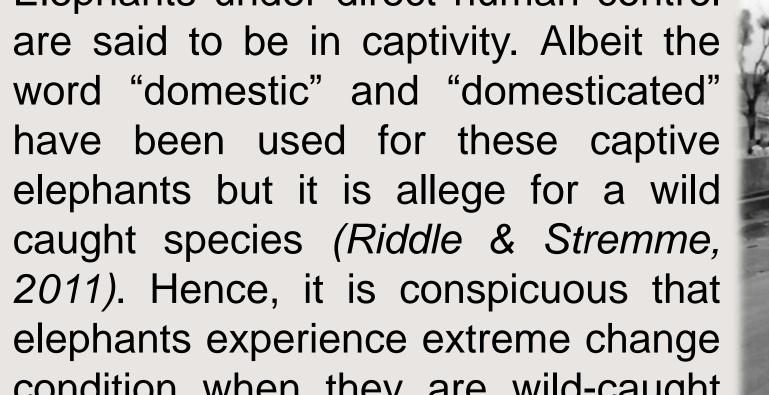
This adversely affected physiological and physical wellbeing of captive elephants.

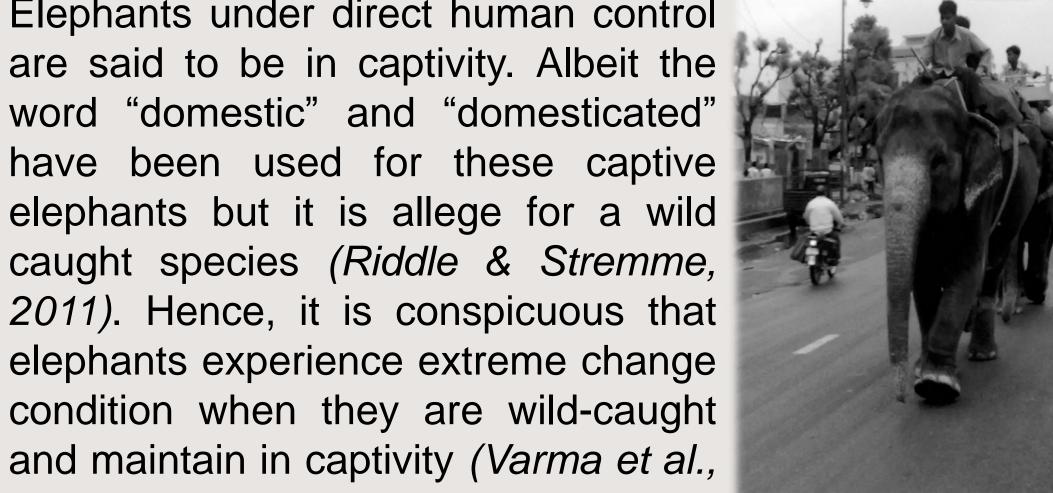
Deficient management practices exacerbated negative effects of captivity. Hence changing them will likely help in alleviating captivity impacts on elephants.

•Data on mortality of captive elephants was not available.

•Number of elephants captured from wild for captive raring purpose was not available.







Madhulal, V., (2008). Caring captive elephant, HIS' way. Identifying and defining welfare parameters for captive elephants and their mahouts in India Welfare and Management of Elephants in Captivity: Proceedings of a Workshop on Welfare Parameters and their Significance for Captive Elephants and their Mahouts in India (S. Varma, and D. Prasad, eds.). Project Elephant, Ministry of Environment and Forests (MoEF), Government of India, Compassion Unlimited Plus Action (CUPA) and Asian Nature Conservation Foundation

3. Varma, S. and Prasad, D., (2008). Welfare and management of elephants in captivity—Insights and Recommendations. Identifying and defining welfare parameters for captive elephants and their mahouts in India Welfare and Management of Elephants in Captivity: Proceedings of a Workshop on Welfare Parameters and their Significance for Captive Elephants and their Mahouts in India (S. Varma, and D. Prasad, eds.). Project Elephant, Ministry of Environment and Forests (MoEF), Government of India, Compassion Unlimited Plus Action (CUPA) and Asian Nature Conservation Foundation (ANCF), Bangalore, India, pp. 54-64. 4. S. Varma (2015). Captive Elephants in India: Ecology, Management and Welfare, Compassion Unlimited Plus Action (CUPA) and Asian Nature Conservation Foundation

(ANCF), Bangalore, India. First limited Edition 2015. Published by CUBA and ANCF