The Vanishing Viper 2016: Priorities for Adder Conservation

IUCN Guidelines and adder translocations

Gemma Harding and Richard A. Griffiths











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Why do translocations?

Motivations:

- Conservation of species demand driven
- Human-wildlife conflict supply driven









Reintroduction Guidelines

IUCN Position Statement on Translocation of Li

INTRODUCTIONS, REINTRODUCTIONS AND RE

Prepared by the Species Survival Commission in co Commission on Ecology, and the Commission on E Administration

Approved by the 22nd Meeting of the IUCN Council September 1987

FOREWORD

This statement sets out IUCN's position on transloc covering introductions, re-introductions and re-stock three sorts of translocation are very different so the parts dealing with Introductions, Re-introductions, Re-introductio Implications, respectively.

DEFINITIONS:

Translocation is the movement of living organisms release in another. The three main classes of transl document are defined as follows:

- Introduction of an organism is the intention; human agency of a living organism outside it
- · Re-introduction of an organism is the intenorganism into a part of its native range from become extirpated in historic times as a resu natural catastrophe.
- Re-stocking is the movement of numbers of species with the intention of building up the r species in an original habitat.

Translocations are powerful tools for the managem made environment which, properly used, can bring biological systems and to man, but like other powe potential to cause enormous damage if misused. The the advantageous uses of translocations and the w to avoid the disastrous consequences of poorly plan

1987

IUCN Guidelin for Re-introductio



Guidelines for Reintroductions and Other Conservation Translocations













DICE University of Kent

1998

Other sources of guidance

Towards an Endangered Species

Denver Zoological Foundation, 2000 East 23rd Avenue, Denver, CO 80205 zooresearch@denverzoo.org

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Yale University School of Forestry and Environmental Studies, 301 Prospect I Rockies Conservation Cooperative, Box 2705, Jackson, WY 83001 timothy:w:diark@yale.edu

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Abstract

Reintroduction programs are becoming increasingly more comone reason for this lack of success is a narrow focus on biolo reintroduction challenge to the exclusion of other important ele paradigm for approaching reintroductions that centers on key a enced by a continuum of variables. Our model includes four biological considerations (ecology, genetic concerns, reintrodu authority and power (control of resources, laws and regulations organizational aspects (program structure, bureaucratic behaand (4) socioeconomic considerations (people's values, attitude cerns, etc.). This model can aid people interested in reintroduct comprehensive approaches to reintroduction promise to impro

Introduction

In response to the current extinction tors and forces have direct crisis, managers and conservationists and paramount significan are searching for innovative, more gered species recovery, a effective methods of species conser- servation movement is to vation. One such method is the trans- it must explicitly recogn location or reintroduction of species plexly interactive impact into formerly occupied habitat. As butions of all the various the list of threatened and endangered species lengthens, the need for em- "A compelling rationale ploying reintroduction as a conserva-tive strategy for protect tion tool increases (Jones 1990).

Most reintroductions, however, that contemporary exti fail (Griffith et al. 1989). One rea- lems are the result of soc son for this, we suggest, is that the and political forces." It programs suffer from a narrow con-experience that these in centration on biological and ecologi- ments often go unrecogn cal considerations and exclude a host individuals working on of other equally important elements. species reintroduction e As Clark (1989:3) stated: "Most descriptions of endangered species re- standing of the importacovery focus only on the biology of elements, we are develo species, thus creating the unrealistic tematic, more holistic view that conservation and recovery endangered species re are strictly technical biological tasks. which explicitly includ

In fact, numerous non-b

Kellert (1985:528) gered species will requir

To increase awarene

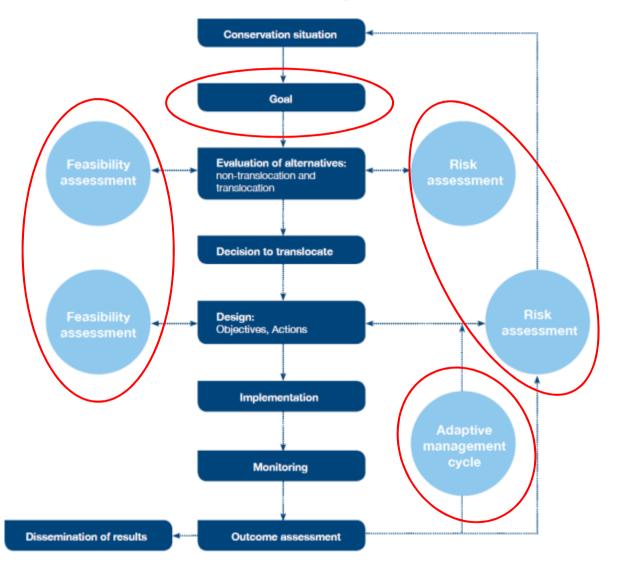
Reprinted from Endangered Species UPDATE: 1991, 8(11):1-4.

142 Endangered Species UPDATE





The Conservation Translocation Cycle





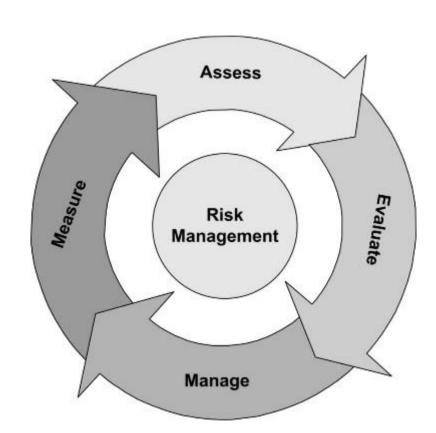
From:

IUCN/SSC (2013). Guidelines for Reintroductions and Other Conservation Translocations. Version 1.0. Gland, Switzerland: IUCN Species Survival Commission, viiii + 57 pp.



Risk assessment

- Risk to source populations
- Ecological risk
- Disease risk
- Associated invasion risk
- Gene escape
- Socio-economic risk



Financial risk



From:

IUCN/SSC (2013). Guidelines for Reintroductions and Other Conservation Translocations. Version 1.0. Gland, Switzerland: IUCN Species Survival Commission, viiii + 57 pp.



What do we already know?

CONCEPTS AND OUESTIONS

What is wrong with current translocations? A review and a decision-making proposal

Irene Pérez^{1,2*}, José D Anadón^{2,3,4}, Mario Díaz⁵, Graciela G Nicola⁶, José L Tella³, and Andrés Giménez²

Should a species be translocate

Do not address population declines Driven by philosophical, aesthetic or sociopolitical reasons

- Often unsuccessful
- May be harmful projects and conservation efforts.

Front Ecol Environ 2012; 10(9): 494-501, doi:10.1890/

CONCEPTS AND OUESTIONS

Mitigation-driven translocations: are we moving wildlife in the right direction?

of many translocations lished and unpublished. a established for translov designed to guarantee

Jennifer M Germano 1,28, Kimberleigh J Field3, Richard A Griffiths4, Simon Clulow5, Jim Foster6, Gemma Harding⁴, and Ronald R Swaisgood¹

Despite rapid growth in the field of reintroduction big applied to translocations initiate a specie

- Well-funded funding
- Designed to meet regulatory intent Poorly monitored and documented unclear. those of ill-suited
- many mit tices woul

Supply driven ranure to document outcomes also hinder eff propiem. If mitigation-driven translocations are to continue as common-dollar ecological consulting industry, it is imperative that the scale and effects of part of the these releases be reported and evaluated.

research are often not

ontinued persistence of

imber and receive more

nefit of the former is

e less successful than

egulatory tool may be

Evidence suggests that

nciples and best prac-

Front Ecol Environ 2015; doi:10.1890/140137



The criteria covered

- 1. Is the species or population under threat?
- 2. Have the threats been addressed? **
- 3. Have alternatives been considered?
- 4. Have the risks to target species been assessed? **
- 5. Are risks for other species or the ecosystem acceptable?
- 6. Are community and socioeconomic issues addressed?
- 7. Are viable populations likely to be established? 💢
- 8. Does the project include clear goals and monitoring?
- 9. Do enough economic and human resources exist? 💢
- 10. Do scientific, governmental, and stakeholder groups support the reintroduction?



Adapted from:

Perez et al. (2102). Frontiers in Ecology & Environment 10: 494-501

Amphibian Reintroduction Guidelines are Coming!

By Gemma Harding, Luke Linhoff & Richard Griffiths

information and guidance, and a draft will be available for open six different countries were enlisted in the fall of 2015 to develop comment via the ASG website later this year.

Reintroduction Specialist Group (RSG) has developed non-taxon summer or fall 2016 we will be soliciting comments and feedback specific, best practice guidelines for reintroductions and other conservation translocations. The most recent guidelines published in draft publically hosted online will invite feedback from all stake-2013 was a major collaboration between dozens of reintroduction holder groups, such as ACAP, ASG and RSG members, ASA partspecialists. Various working groups have also developed reintro- ner organizations, other SSC working groups such as the Wildlife duction guidelines for specific taxon groups, such as elephants and Health Specialist Group. Indeed, we welcome feedback from both non-human primates (all guidelines are available for download at to conservation professionals and citizen scientists. Following the http://www.iucnsscrsg.org/index.php). Currently, a new guide- consultation, comments and feedback will be integrated, and the lines document specifically for amphibian reintroductions and guidelines will be put forward for formal adoption by the IUCN. other conservation translocations is being developed in major new The aim of the guidelines is to help in informing and improving

in 2007, the number of amphibian programs involving captive guidelines. breeding and reintroduction has increased by over 50% (1). Sup- We want feedback from YOU! So stay tuned for more informaporting translocations and reintroductions to ensure they are car-tion on this important document that you will have a chance to be ried out with the best available evidence is integral to the ACAP's a part of! goals for amphibian conservation. The production of a set of amphibian reintroduction guidelines has been a priority action of the

1. G. Harding, R. A. Griffiths, L. Pavajeau, Conservation Biology, 30: 340-349. ACAP reintroduction group for some time and has been driven to fruition by a variety of stakeholders. The advantages of such a doc
2. B. Tapley, K. S. Bradfield, C. Michaels, M. Bungard, Biodiversity and Conservation
24/26/25-2646 (2015). ument are that it will provide amphibian-specific guidance on such issues as planning, risk assessment, threat mitigation and monitor-

ing. This will provide vital information not covered in the general guidelines for practitioners either currently carrying out or planning reintroductions

We are aware there are limitations in the development and application of amphibian specific reintroduction guidelines. It is very difficult to make generalizations for such a diverse group of organisms that encompasses a vast range of ecology, physiology, behaviours, and natural history. Equally, many species that may be a high priority for reintroductions have poorly understoodor even unknown-natural histories (2). We therefore aim to embrace commonalities, case studies, and best practices and provide guidance and links to resources developed elsewhere that are useful for practitioners involved in reintroductions. The document will be organized in sections that cover each of the main stages of the reintroduction process from pre-release planning, implementation, and post-release monitoring, providing examples and useful links along the way. We hope that after the first guidelines are produced, they can be regularly updated and improved to maintain relevance and new developments in this rapidly changing field of amphibian conservation.

working group involving a variety of partners and experts We are using similar processes utilized to develop other reinhas been established to produce amphibian reintroduction troduction guidelines. Initial planning and development started Quidelines. These guidelines will encompass a variety of in earnest in February 2015. A core group 11 specialists based in the initial draft text. The guidelines are currently in a draft form, The International Union for the Conservation of Nature (IUCN) and are still being developed by the core team. However, in latetranslocation programs. Comments and feedback at the draft stages Recent research has shown that since the publication of the ACAP will be therefore critical to developing high-quality and useful



Reintroduction in action: Releasing Chiricahua Leopard Frogs. Photo: Arizona Game and Fish Department.

30 FrogLog 24 (2), Number 118 (June 2016)



Reptile reintroduction remruuuchung
guidelines
guidelines
(incorporating
mitigation
mitigation
translocations...)?



Conservation or cosmetic surgery...?

We need to ensure that translocation programmes result in:





A transformation...

...not expensive mistakes

