

**An overview of Endangered species lost in the wilderness and the role of Government organizations in Finding and sheltering them.**

## Abstract

My intention here is to highlight how to save endangered species from extinction and capture them by tracking them down, health recovery and integrate them with other species of their class. It is the responsibility and duty of specialized governments' sponsored organizations. And how they should make endangered species mate and breed after recovery. Lists of endangered species should be issued properly by committees. The committees must form powerful and well equipped teams in the search for such species with the proper equipment provided by organizations officials. The captured animals should be well trained to cope and integrate with other animals.

Then, the number of near extinct species can increase until it reaches the number or near the number of regular species. An example of near extinct species is mentioned such as the white rhinoceros. And how they can redevelop again by the cooperation of professional teams and experts. The process of saving endangered species takes long time and patience. These efforts must be supported by logistics, cooperation, knowledge and experience and most of all, strong belief that those species can be saved.

*Keywords: endangered species, organizations role, recovery of species, integration, laws and regulations, creating lists.*

## **Introduction**

government organizations' role, which are responsible for wild life conservation, is to make a thorough checked list of endangered species on the local and the national level along with the international level. And their efforts in species conservation to bring them safely. Their efforts to stop illegal activities and to conserve such species in scientific ways. The major role of leaders of endangered species conservation organizations is develop or redevelop captured animals and make them integrate with other animals safely.

Also, animals' total health recovery and producing new breed is their responsibility . And to share their successful experiences with other organizations world wide.

## **Results and Discussion**

They should offer rewards to those who turn in endangered species or report them to the authorities. In return, they should be honored and rewarded for their deeds and services. They should inform others and make them aware of their rewards and they should encourage them follow their path. They should also warn others about punishments to those who disobey and do illegal activities against endangered species or hunt them down.

The list of endangered species should be made carefully and diligently according to the national and international standards

of endangered species conservation with details and history of the species and their other class species. The list should be made by experts, professionals and wise people who have dealt with these issues.

The final list should be issued by the head of the committee of endangered species.

And that this committee should be permanent or should hold meetings on the regular bases with fully paid salaries to its members. Members of the committee should be aware that these service are for the sake of saving endangered species as doing a favor to the environment by saving them from extinction. It is more of humanity rather than doing a job with paid salary.

The laws, rules and regulation about the endangered animals should be firm and continuous even if the endangered animals are safe, unharmed and released. Severe punishments must be issued against those who break the law and there must be jail time, fines and public warnings for them.

Those laws of protecting the endangered species should be announced in all public media, social networks, official websites, posters, billboards, etc.

Awareness should be made in public places such as gardens, malls, streets playgrounds etc. This awareness should be scheduled day and night until people learn them by heart. They should learn that there are severe and serious punishments to those who disobey the law and that the organizations are under direct supervision of the leader of the country.

There must be adequate rewards to those who inform on people possessing illegal endangered species. Those who want to report endangered species should report directly to the head of the committee and no one else

There should a hotline especially for making reports or whereabouts of the endangered species. Because if they report to more than one person this will cause chaos and confusion among people.

The descriptions and details of the endangered species should be confirmed according to the list.

And they should be submitted by all media means through using images and videos of the endangered species and its location and whereabouts.

The committee can check and examine the animal in order to determine if it is an endangered animal or just a regular one.

If people find an endangered and dangerous animal they should not cause harm to it but they should avoid it by peaceful means

as much as they can and the media should immediately issue warnings to the public and inform people about the best ways to avoid such animal in a peaceful way without causing any harm.

And if anyone sees someone who is trying to hunt down the endangered animal, they should report the hunters to authorities or try to stop them if they could.

Search teams which are trying to catch the endangered animal should use special and unique warning equipment such as whistles and sirens to warn their other team members about the location of the endangered animal. They have to use some warning codes such as continuous whistles and sirens means the animal is near and if the warning is alleviated or stopped that means the animal is moving away. Some of the team members should stay behind to warn the others and so on.

The territory where the animal is found should be marked, surrounded and guarded thoroughly. Only officials should be in that area and no information should be sent out not even to family members or relations.

Officials hunting for the animal should wear suitable clothes and protective equipment when facing the animal and they should use the suitable and measured substances for drugging the animal without causing death or harm to it. The drugged substances should be used according to the animal's body

resistance, weight, tall and its health and condition.

The drugs and substances should be officially approved for this specific animal. Rotations on guarding the area should be considered. If the animal is too dangerous, they should retreat and wait for support. The locals can provide help to the guards if needed and should watch for illegal hunters.

Some locals can volunteer to protect the guards in return for rewards and their names should be officially registered. The volunteers can be divided into troops and groups so that some groups can provide warnings and updates on the hunt.

After the animal is captured they should make firm and thorough check on it to ensure that it matches the reported one. The animal should be delivered to the organization for confirmation. Some guards should stay behind in the hunting area until they receive confirmation and approval. The same procedures should continue.

If the captured animal is confirmed that it is the right one, reports should be issued by the committee, professionals and experts that the endangered animal has been found and now it is in custody.

After confirmation and announcement of the captured animal, the animal should compulsory be under follow up and medical

check up until it is fully recovered and then it should be under highly protected and healthy environment with maximum security awareness.

The facility for the animal in custody should be guarded by diligently and carefully selected officers and guards.

The animal must be supervised by professional veterinarians and animal experts who are leaders in their field.

The final report about the animal's condition should be thoroughly checked and confirmed many times before the final decision about the animal's health and condition.

This team of doctors should follow up regularly on the animal's condition and health improvement and they should be assigned this task permanently and for other animals to be captured.

The animal's health should be continuously improving until it is strong and healthy. The animal's food must be selected according to its nature and condition until it fully recovers. The animal should be released in the facility to move around and to check on its physical performance. It should be trained by professional animal trainers and to study how friendly it is to humans. This training will make the animal become friendly with people and get used to people around it.



The trainer must be professional and familiar with such animals and he must use the proper safety and training equipment.

The trainer must be chosen after a competition between several animal trainers from wide range with different experiences.

After the animal is well trained and fully recovered, then the news can be released to the public. The animal should be trained to become familiar to its other class animals and it should be trained to become friendly with them and interact with them naturally.

Vertebrates are considered to be the backbone of species. They can be found where there is plenty of food, water and safety; in areas away from cities and human settlements where they don't want to be found or discovered. Most of the time they escape to new and unfamiliar areas to them and they end up lost in the wilderness.

They split from their original group running away and moving in different directions where they get lost in the vast lands of the wilderness.

After that, they keep moving until they find shelter, food and waters. Then, they acclimatize themselves to the new found environment. One of the animals must become the leader of the new group and it must become the dominant male to protect its new home as long as it is alive, strong and powerful. It has to mark its land and territory to scare away other animals. Once the new territory is safe, then all animals can start new life. This is the main reason why animals become endangered to seek good

life where they can grow, breed, find food and shelter.

Vertebrates are considered to be the most powerful animals on land. All vertebrates by nature follow one life style according their nature, food, water etc.

Each class of vertebrates have its own life style according to their nature which make them different from other animal classes.

One idea to find endangered animals is to equip an animal with cameras and sensors attached to its body and release it in the wilderness to find its other class mates.

There should be some way to make the animal return if it doesn't find its other class mates. It can be used for search many times.

The senses of the animal used for search must be controlled by trainers through using means of technology and advanced tracking systems. The animal must be powerful and in good health in order to defend itself and avoid dangers.

The trails of the animal can be tracked by GPS or other advanced tracking technologies. This search animal must be well trained, powerful, well protected and intelligent. Even the search animal can be supported by another one along in the search process. They can be trained to become friends and cooperate in the search.

Those animals should be trained to avoid contact with other people except their trainers. Once they find their target kind, they shouldn't get in dangerous contact with them but they should approach them in a peaceful way which doesn't cause

disturbance or fear among the found group. They should not approach beyond the limits of the group's leader. In order to avoid dangerous clashes,

They should submit peacefully to their new group leader or stay in distance until the search teams and trainers reach them.

The second endangered species are plants.

Endangered plants are hidden from the human eyesight and some plants are difficult to find but they survive and grow.

Plants grow according to their visibility to the sun. They also grow in vast areas. They can be distinguished from other regular plants easily because they keep growing separately and away from other plants. Some plants grow grass and weed around them to protect them from other plants. Those grasses act as a shield and sometimes cover the main plants. Some critically endangered plants are surrounded by strong grasses which act as shields. We can barely see such plants when the grass is above the plants length and sometimes they are hidden on the ground or between rocks.

When the plants are found they must be compared with their similar class plants and search their history of existence. The plants might have different names depending on the local region where they grow but their scientific name is universal. When searching for such plants, scientists must search for the plants using local names instead of universal names. Even the local names might change from one area to another. The search team can use a local tour guide who is well experienced. Some plants are used as medicine and for other purposes. Seeds of

endangered plants can be found and can be farmed. Some people grow and own rare and endangered plants and sometimes they sell them for living. Others grow fake types of plants. Ministries of agriculture are responsible for growing most of the lands in most countries. The lands where plants grow are counted. They hire all types of experts and professionals in the farming businesses. Farming businesses store seeds of most plants and trees. Almost all plants cannot survive without water. So, most of those plants can be found wherever there is source of water or rain. Some plants grow on their own. They don't need to be fertilized.

### Invertebrates

Invertebrates can be found according to their areas and climate. Migration of invertebrates depended on where they can find food and shelter. Some die during the migration process. Some stay behind. Some return back. Scientists can expect periods when most invertebrates migrate and expect the locations of their arrival.

Some invertebrates are extremely distinguished. They are unique on their own. Mostly, they feed on one unique type of food. Some can be found by the waters and trees where they create their own settlements.

### Fungi and other species groups

Most fungi are found by the waters and covered by trees and plants. There are two main types: good and bad fungi. Some fungi have unique looks and shapes which most people can't recognize.

Some are heavy and live longer than others. Some unique fungus are found in caves where waters flow and by waterfalls. They can be found in the most isolated regions, islands, plains, caves, waterfalls and forests. But those isolated places must be studied before beginning the search for such fungus.

Searching teams must spend as little as they can before beginning vast explorations which are costly. They must do preliminary explorations with the minimum costs and after confirmation, they can start vast explorations.

Case study:

The White Rhinoceros are near extinct. The majority of them are lost and become almost extinct. Because they are too wild and scare other animals. So animals have to escape and leave them alone because they can't bear life under their control. In the end, they become isolated. Other animals escape to places where they find safety and food.

So rhinoceros become isolated and their number decreased. Some of them chased other animals until they became isolated from their original group. Hunters spot those isolated rhinos and hunt them down one by one. And they call upon other hunters to join them and they split the bounty between them.

The group left behind must find their survival ways in order to breed and grow. They gradually build new territories where they can find source of water and food.

A leader of the group must become dominant and take over the rest of the group.

Such animals must live near isolated forests. Maybe they are joined by other rhinos which class is different from the white rhinos and mix and mate together to produce different breeds of rhinos. But they still have original genes of the white rhinos in them and signs which still make them recognizable as their ancestors white rhinos. This new breed of rhinos must have characteristics that make it superior to its current class mates. If found new breed of white rhinos, then they can again produce pure lines of white rhinos. The differences between the old white rhinos and regular rhinos can be told from their external organs compared to regular rhinos. White rhinos live longer than regular rhinos. A white rhino can live up to 50 years while a regular rhino can live up to 30 years. The process of redeveloping the white rhinos will take time and efforts until they become pure white rhinos again. Some rhinos will develop quicker than others. Maybe some won't develop at all. Those which will fully redevelop must be put under great amount of solicitudes and medical attention. After they totally recover and become pure white rhinos, scientists have to be patient and wait. They don't have to rush anything. They just have to observe their new white rhino breed over time as long as takes. Food must be provided for the new breed day and night. Medical attention must be paid to the new breed. The medical equipment must be suitable and can endure such job. The rhinos must be under observation for the rest of their life until they produce another breed of white rhinos. Then, the new generation can be released and introduced to mother nature. But before releasing them, they have go through simulations in an environment that looks like their original environment.

Gradually, they can be exposed to the sun and high temperatures. Until they become acclimated to high temperatures. After that, they can join the rest of the white rhinos in the wilderness.

## **Conclusion**

In conclusion, it takes great efforts, patience and time to save endangered species but in the end it pays and species can be conserved.

Teams of scientists and specialists can restore the captured species to their original state.

Those teams of scientists have to work very hard with cooperation of other experts and professionals providing all details and information about the endangered animals.

We should also consider the fact that most endangered species or near extinct have longer lifespan and they live longer than normal ones.

The most critically endangered species live longer, grow stronger and they are the most powerful species of their class.

## **Acknowledgement**

I thank all the people around me in real life who helped put the pieces together. Every single one of them.

## **References**

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