

Mammals of medium size and large from an area for the Conservation Voluntarily (ADVC) of Mexcaltepec, Guerrero, Mexico

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Abstract

In Guerrero three natural reserves have been ordained, “El Veladero” “Juan N. Álvarez Park” and “Grutas de Cacahuamilpa National Park” because of their scenic beauty but no because their biological and ecological functions elements, the new category “Area Intended to Voluntary Conservation” (ADVC in Spanish) seeks a balance between the owners of the forest and the natural resources. Therefore, the purpose of this study is to develop a wild mammals list of medium and large size of one ADVC in the community of “Mexcaltepec”. For this we used methods such as fingerprints and excrement, also we used camera traps in the core zone. As a result we obtained 156 images corresponding to 14 species grouped in 7 orders and 10 families. Of the 14 species 3 are listed in the NOM-059-SEMARNAT-2010 (*Leopardus weidii*) (*Tamandua mexicana*) as endangered species, while (*Herpailurus yaguarundi*) as extinction endangered.

Wild mammals, Species, ADVC

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Introduction

Studies of wild mammals are important mainly because of its relationship with the ecosystem, are pollinators, seed dispersers, growth regulators and distribution of plants and animals also are effective pest and insectos. Para Guerrero state drivers have registered about 152 species of wild mammals, representing 33% of terrestrial mammals of Mexico (Ramírez-Pulido et al. 2005) This diversity is mainly due to the physiographic, climatic and ecological characteristics that present the state of Guerrero, which They offer a variety of habitats, shelter and food.

At the federal level in Guerrero they have been declared three Protegidas Natural Areas (PNA): The Veladero, Parque Juan N. Alvarez and Cacahuawamilpa Caves National Park; which they were enacted for its scenic beauty, not their biological elements or ecological functions. This expropriation caused social, political and land disputes; and consequently greater environmental degradation of forests and ecosistemas. Por therefore, the new category "Destined to Voluntarily Conservation Area" seeks a balance between forest owners (living in communities) and natural resources (flora and fauna) to achieve its conservation and sustainable use. Therefore, the objective of this work is to record wild mammals that live in a ADVC in the community of Mexcaltepec, for solid elements (fauna-mammals) for their protection, unlike other categories that handles CONANP (expropriations) .

Methodology

Mexcaltepec is located in the municipality of Acatepec, in the state of Guerrero. The climate is warm humid with summer rains. Vegetation type is pine, pine-oak and oak.

Recording medium and large mammals size was performed by van tours and hiking paths and trails. indirect records such as footprints and excrement, which were found in key locations such as the banks of waterholes, rivers and streams were also used. a total of 12 camera traps brand Cuddeback (digital) Attack-1149 model were placed. These cameras have a range of highly efficient detention, have a motion-sensitive sensor and automatically triggered when the animal passes in front of it. Be scheduled as follows: time (hour, minute), date (day / month / year), power and flash range (9.14 m), length of video (10 s), operation time (night, day, night day), image quality (high) number of trap (n = 1

Results

In total 156 images were obtained, corresponding to 14 species, grouped in 7 orders and 10 families. The order Carnivora best was represented with seven species (50%), followed by two species Artiodactyla (14.2%). The richest family Felidae and Mustelidae were three species each. Of the 14 species, three are listed in NOM-059-SEMARNAT-2010. Ocelot (*Leopardus weidii*), the anteater (*Tamandua mexicana*) are listed as endangered species (P); while the jaguarundi (*Herpailurus jaguarundi*) as Threatened.

Annexes

Order	Family	Species	Common Name
DIDELPHIMORPHIA	Didelphidae	<i>Didelphis virginiana</i>	Tlacuache
CINGULATA	Dasypodidae	<i>Dasypus novemcinctus</i>	Armadillo
PILOSA	Myrmecophagidae	<i>Tamandua mexicana</i>	Anteater
LAGOMORPHA	Leporidae	<i>Sylvilagus unicularius</i>	Rabbit
RODENTIA	Sciuridae	<i>Sciurus aureogaster</i>	Gray squirrel
CARNIVORA	Felidae	<i>Leopardus wiedii</i>	Tigrillo
		<i>Puma concolor</i>	Puma
		<i>Puma yagouaroundi</i>	Yaguarundi
	Canidae	<i>Urocyon cinereoargenteus</i>	Gray fox
	Mustelidae	<i>Mustela frenata</i>	Weasel
		<i>Conepatus leucurus</i>	Cadeno zorrillo
		<i>Procyon lotor</i>	Raccoon
ARTIODACTYLA	Tayassuidae	<i>Pecari tajacu</i>	Pecari
	Cervidae	<i>Odocoileus virginianus</i>	Whitetail deer

Table 1 List of wild mammals of Mexcaltepec**Conclusion**

Wealth ADVC recorded this represents 9.2% compared to the state wealth. The best order is Carnivora represented with 7 species. And families with more species were Felidae and Mustelidae. The second order was Artiodactyla best represented with two families.

Three of the 14 recorded species are in a risk category according to the NOM-059-SEMARNAT-2010. These species are important in achieving this area as ANP decree also financial resources are available for protection. The protection of these mammals could function as an umbrella effect, protecting the forest and therefore the other species that inhabit it.

Finally this ADVC of Mexcaltepec not está exenta anthropogenic fragmentation issues (logging, fires, cattle), therefore it is important to continue the research of mammals in this area; to achieve in a short-term protection and conservation of natural resources and thus achieve the sustainability of the area.

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References

Ramírez-Pulido, J., J. Arroyo-Cabrales y A. Castro-Campillo (2005). Estado actual y relación nomenclatural de los mamíferos terrestres de México. Acta Zoológica Mexicana, 21:21-82.