



NDF WORKSHOP CASE STUDIES  
**WG 5 – Mammals**  
**CASE STUDY 8**

*Vicugna vicugna mensalis*  
Country – **ECUADOR**  
Original language – Spanish

## **CONSERVATION AND CURRENT USE OF THE VICUÑA (VICUGNA VICUGNA MENSALIS) IN PERU**

**AUTHOR:**

Domingo Hoces Roque

### **I. BACKGROUND INFORMATION ON THE TAXA**

#### **1. BIOLOGICAL INFORMATION**

##### **1.1. Scientific and common names**

Class: Mammalia  
Order: Artiodactyla  
Family: Camelidae  
Genus: *Vicugna*  
Species: *Vicugna vicugna*, (Molina, 1872)  
Subspecies: *Vicugna vicugna mensalis*  
*Vicugna vicugna vicugna*  
Scientific synonyms: None

Common names:

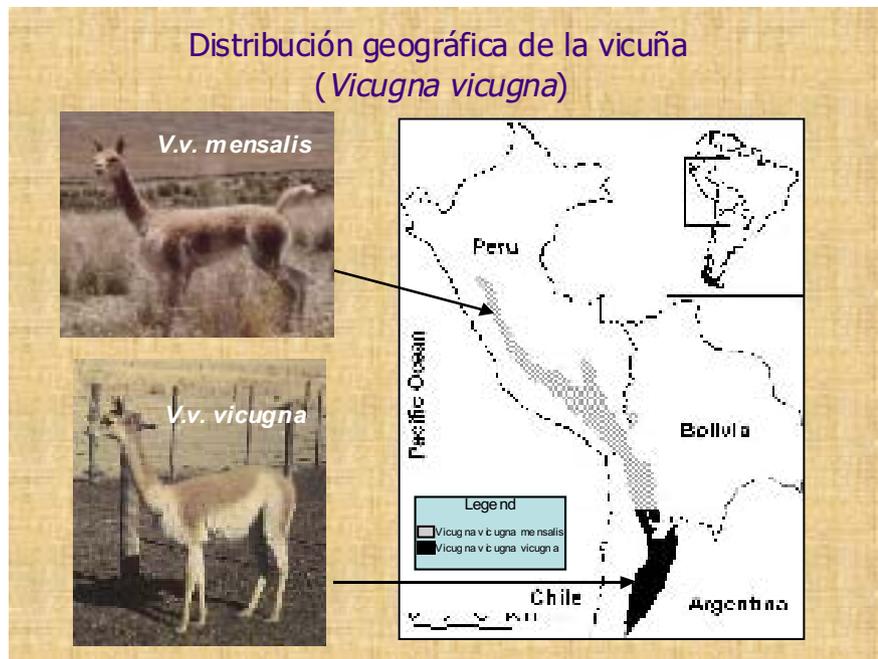
Quechua: Vicuña  
Aymara: Huari  
Spanish: Vicuña  
French: Vigogne  
English: Vicuña, vicuna  
German: Vikunja

Code number: CITES A.119.004.002.002 (CITES Identification Manual)

Listing in CITES: Appendix II (18/09/1997)

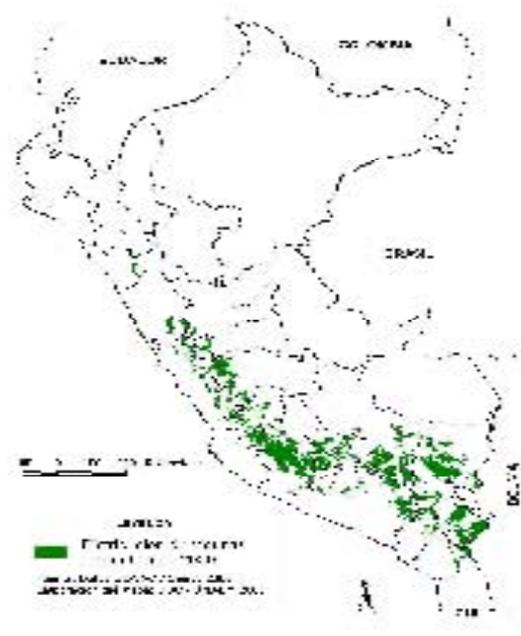
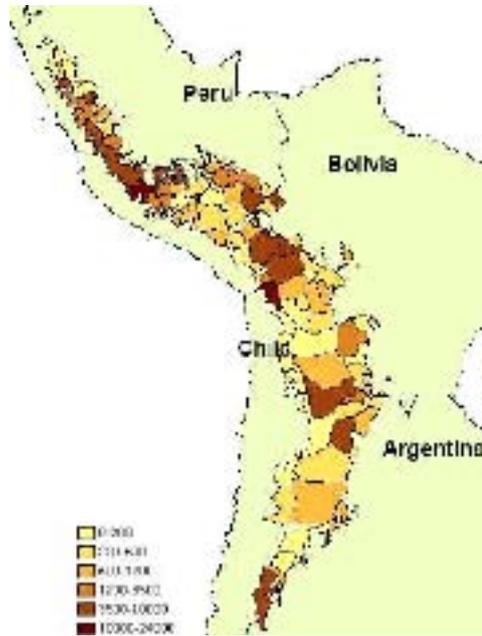
## 1.2 Distribution

The current natural distribution of the Vicuña comprises the Puna and high Andean ecosystems in Argentina, Bolivia, Chile and Peru. Since 1988, the species has been reintroduced in Ecuador, with specimens from the other range States. In these countries, the species occurs in the Andean Altiplano, normally at elevations higher than 3,300 m, in areas where the vegetation is formed by shrub steppes, grasses and herbs adapted to harsh climatic conditions.



In Peru, the known populations of vicuña are distributed along the high Andes above 3,800 m in approximately 7 million hectares out of the 15 to 18 million hectares of potentially suitable habitat estimated for the country. Vicuña populations are found from 8.14' south latitude in the North until the border with Bolivia and Chile (18 00' south latitude) in the South, in 16 Departments (large administrative regions) of the country. The largest populations are found in the Departments of Ayacucho, Puno and Lima.

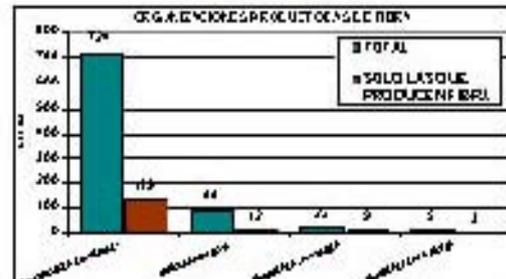
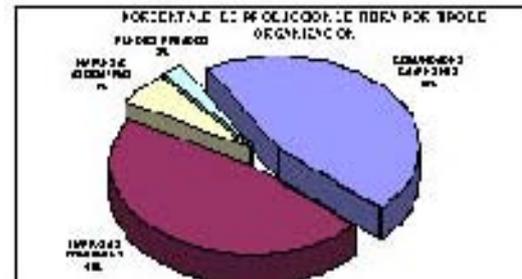
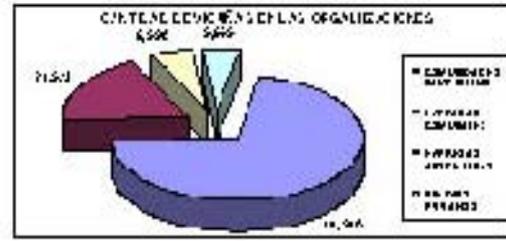
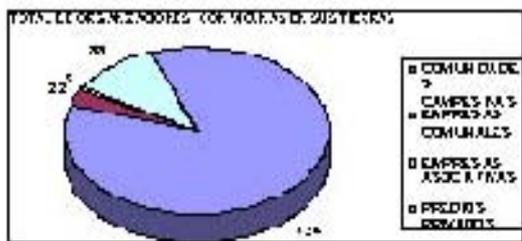
The great majority of vicuñas recorded so far occur on land that belongs to rural communities and peasant cooperatives. There are about 8,000 of such organizations in Peru, out of which more than 700 are organized into local committees called "Comités Comunales de la Vicuña."



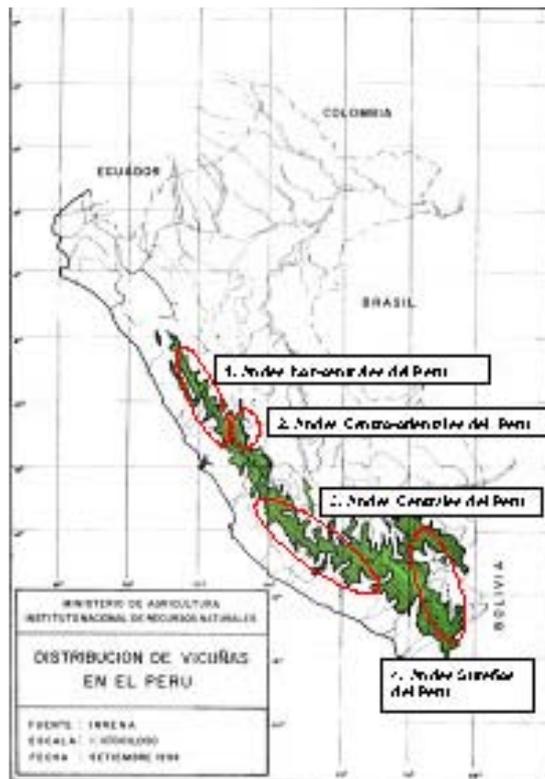
Distribution of the Species in South America (Laker 2007). Distribution of the Vicuña in Peru (Veliz and Hoces 2007)

**DISTRIBUCION NACIONAL DEL X POBLACION DE VICUÑA Y DE LA PRODUCCION DE LANA DE VICUÑA SEGUN GÉNERO Y CAMPAÑA DE PRODUCCION AÑO 2010**

| Tipología Organizadora | DISTRIBUCION Y PRODUCCION DE VICUÑA |               |                                    |               | PRODUCCION DE LANA DE VICUÑA       |               |                                    |               |
|------------------------|-------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|------------------------------------|---------------|
|                        | NÚM. ORGANIZACIONES NACIONALES      | %             | PRODUCCION DE LANA DE VICUÑA (KGS) | %             | PRODUCCION DE LANA DE VICUÑA (KGS) | %             | PRODUCCION DE LANA DE VICUÑA (KGS) | %             |
| COMUNIDADES CAMPESINAS | 734                                 | 85.88         | 84,871                             | 71.55         | 128                                | 84.31         | 1,681,838                          | 45.54         |
| EMPRESAS COMUNALES     | 22                                  | 2.61          | 21,621                             | 18.14         | 8                                  | 5.28          | 1,678,038                          | 45.05         |
| EMPRESAS ASOCIATIVAS   | 8                                   | 1.07          | 8,681                              | 7.55          | 3                                  | 1.96          | 200,020                            | 5.23          |
| PROYECTO PRIVADO       | 80                                  | 10.44         | 6,066                              | 5.17          | 12                                 | 7.85          | 87,020                             | 2.23          |
| <b>TOTAL NACIONAL</b>  | <b>844</b>                          | <b>100.00</b> | <b>118,239</b>                     | <b>100.00</b> | <b>151</b>                         | <b>100.00</b> | <b>3,646,916</b>                   | <b>100.00</b> |



In 2001, four demographically and genetically distinct groups were identified among the vicuñas in Peru: northwestern Junín, southern Junín, central Andes and Puno. Given their differences, it has been recommended that these groups be dealt with in separate management units in the future.



UBICACIÓN DE LAS POBLACIONES GENÉTICAS DE *Vicugna vicugna men-salis* EN EL PERU



Translation of heading: Location of the genetic populations of *Vicugna vicugna men-salis* in Peru

### 1.3. Biological characteristics

#### 1.3.1 Biological characteristics and life history of the species

##### SOCIAL ORGANIZATION

Vicuñas usually live in family groups dominated by an adult male or only-male-groups, although there are also solitary males besides these groups. The average size of the families is very stable in comparisons between populations and between both subspecies (one male, tree or four males and two or three young). The male establishes and maintains a permanent territory throughout its reproductive life. The territory usually has a sleeping area in the highest sector, feeding grounds lower down, and a source of water. The boundaries of the territory are

delimited by dung heaps, which help orient the members of the family group and are used by the dominant males to threaten vicuñas that do not belong to their group. The territory boundaries are reinforced by the “ritual” defecation of these males. The dominant males control the size of the family group, defending their territory against any vicuñas not belonging to the group, and expelling their own male and female offspring when they reach 4-9 months and 10-11 months of age respectively before parturition starts in February. Expelled males form non-territorial groups made up of 20-60 animals on average, and females join other family groups. Some males eventually separate from these groups and live alone until they establish their own territory.

#### REPRODUCTION

Gestation of the vicuña lasts 330 to 350 days. In Peru, parturition starts in the second half of February and finishes in the first week of April, reaching a peak in March. In southern populations, however, most births take place in February. Parturition always takes place in the morning. At birth, the young weigh 4-6 kg, about 15% of their mother’s live weight. Mating takes place a few weeks after parturition. Some vicuñas are ready for mating at one year, but most reach reproductive maturity at two years and produce their first offspring at the age of three. In Pampa Galeras, pregnancy rates – determined on the basis of external observation in the last month of gestation – were 85% to 95% before the population crisis of 1976, and 58% after the crisis. In a vicuña population of Puno, pregnancy rates of 99% were determined by rectal palpation.

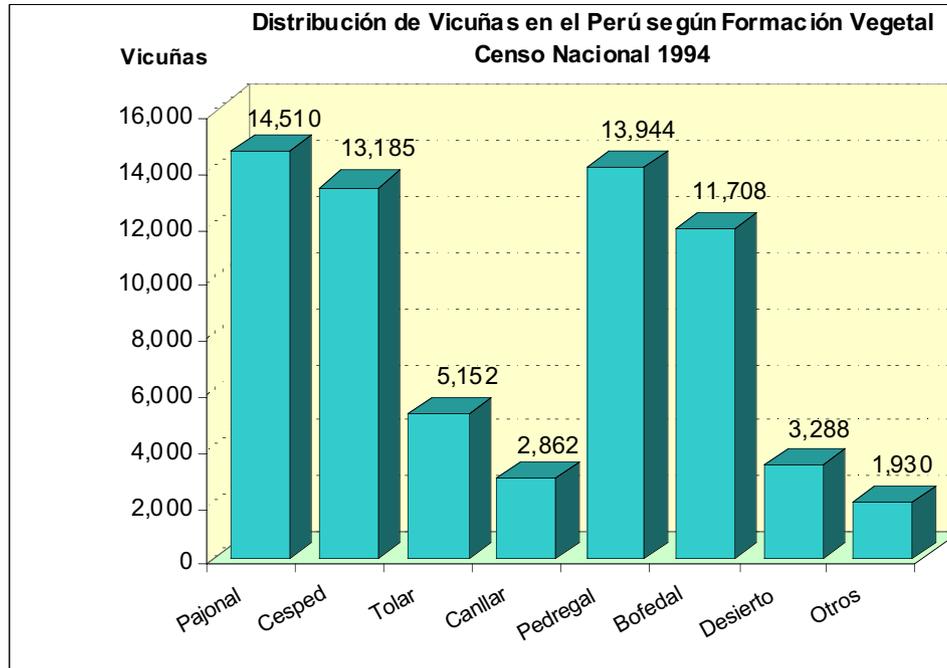
#### 1.3.2. *Type of habitat:*

The Puna and high Andean ecological formations of Peru are distributed from the Department of La Libertad in the north (8 south latitude) to the border with Bolivia and Chile in the south (18 south latitude). Such areas feature greater humidity in the north, which is connected to the high plateau, than the south, which is drier. Elevation ranges between 3,800 and 5,000 m, with a mean temperature of 6 – 8°C and rainfall between 400 and 700 mm.

The dominant vegetation is formed by grasses, which alternate with low plants and scarce forests with plants of the genera *Polylepis*, *Buddleia* and *Puya*.

These habitats occupy a stretch of land which is narrow in the north and broad towards the south, with a total surface just under 18 million hectares in Peru.





SOURCE: 1994 NATIONAL SURVEY (INRENA), Author: Domingo Hocés

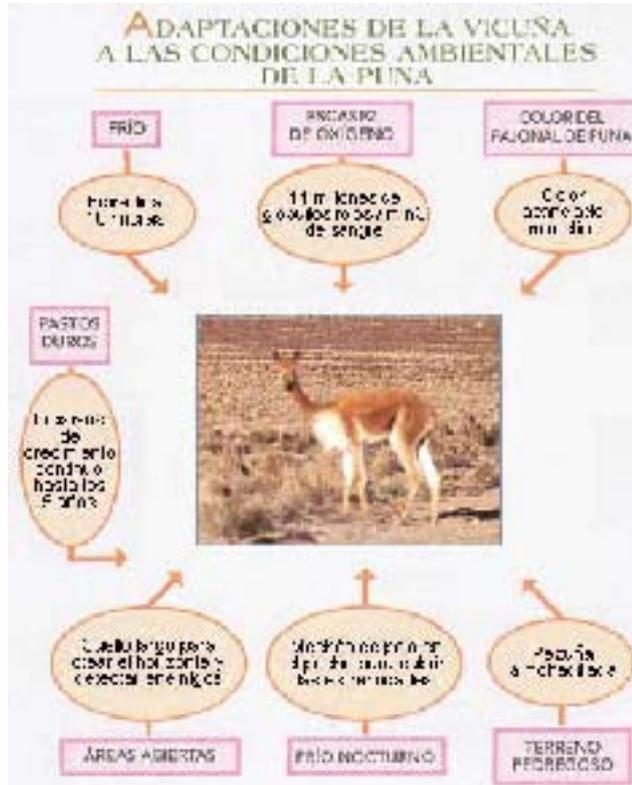
Translation of the text in the table: Distribution of vicuñas in Peru based on plant formations. 1994 National Census

### 1.3.3. Role of the species in its ecosystem

As a wild animal, the vicuña is a key species of the Puna and the high Andes because it is native, adapted to the climate of the region, and especially because of the high economic value of its fiber; the species coexists with extremely poor human populations, for whom it is an alternative way to obtain efficient production from the land, given that other traditional agricultural activities are not successful above 4,000 m. Because of their adaptation and origin, vicuñas have greater productivity and yield than introduced animal species.

TRANSLATION OF TEXT IN THE IMAGE:

Adaptations of the vicuña to environmental conditions in the Puna. Cold – fine fiber, 10 microns; lack of oxygen – 14 million red blood cells / mm<sup>3</sup> of blood; color of the Puna scrubland – mimetic light brown color; hard plants to forage – incisors grow continuously until the age of 5; open areas – long neck to see predators easily from a distance; cold nights – longer hair on chest to cover limbs; rocky terrain – cushioned hooves;



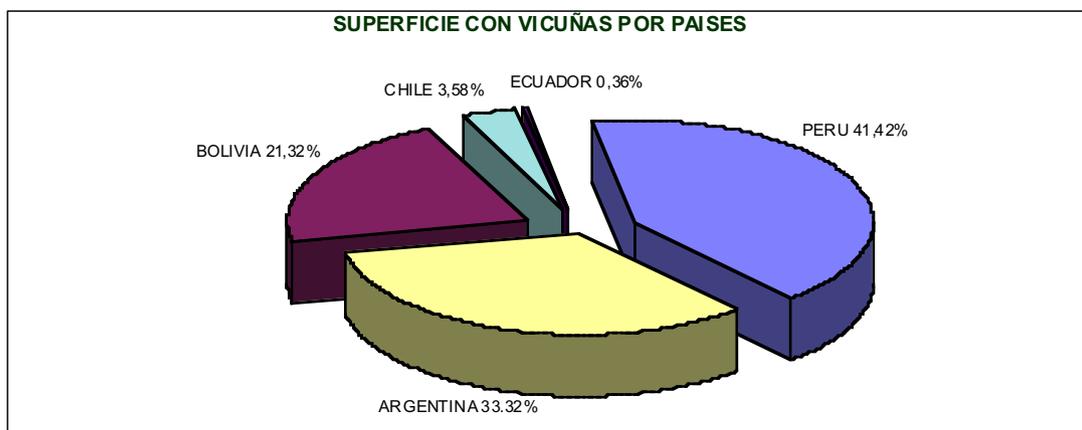
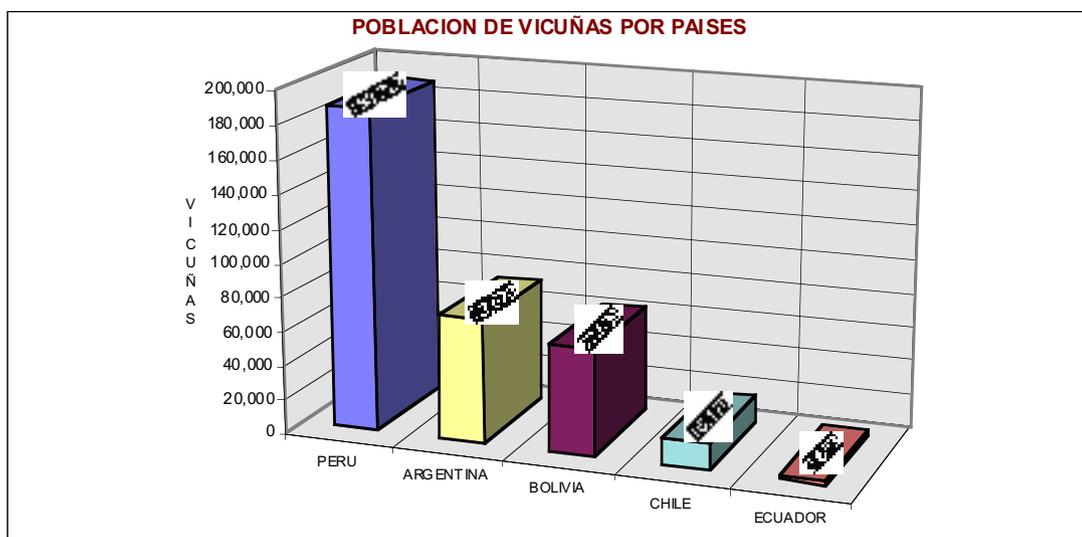
## 1.4. Population:

### 1.4.1. Global population size:

The current vicuña population (in 2006) in its whole range (Peru, Argentina, Bolivia, Chile and Ecuador) is around 340,000 individuals, distributed in over 16 million hectares of natural habitat. According to the estimates, Peru has the largest population – over 188,000 individuals – and area of distribution – close to 7 million hectares.

## POBLACION DE VICUÑAS POR PAISES DE ORIGEN

| PAIS         | VICUÑAS        |       | SUPERFICIE        |       | AÑO DE CENSO<br>O PROYECCIÓN | FUENTE               |
|--------------|----------------|-------|-------------------|-------|------------------------------|----------------------|
|              | Población      | %     | Hectáreas         | %     |                              |                      |
| PERU         | 188,327        | 54.95 | 6,661,498         | 41.42 | 2006                         | Convenio Vicuña 2007 |
| ARGENTINA    | 72,678         | 21.21 | 5,357,800         | 33.32 | 2006                         | Convenio Vicuña 2007 |
| BOLIVIA      | 62,869         | 18.34 | 3,428,356         | 21.32 | 2006                         | Convenio Vicuña 2007 |
| CHILE        | 16,170         | 4.72  | 575,250           | 3.58  | 2006                         | Convenio Vicuña 2007 |
| ECUADOR      | 2,683          | 0.78  | 58,560            | 0.36  | 2006                         | Convenio Vicuña 2007 |
| <b>TOTAL</b> | <b>342,727</b> |       | <b>16,081,464</b> |       | <b>2006</b>                  |                      |



Fuente: Convenio Vicuña. Elaboración: Domingo Hocés.

Translation of text in tables and charts above: Vicuña population by countries of origin;

Three official national surveys have been made in Peru (1994, 1997 and 2000) with an average frequency of 4 years, using the Direct Count Method. The results are shown in the table below:

| DEPARTAMENTO     | CENSO 1994 (INRENA) |                  |               | CENSO 1997 (INRENA-CONACS) |                  |               | CENSO 2000 (CONACS) |                  |               |
|------------------|---------------------|------------------|---------------|----------------------------|------------------|---------------|---------------------|------------------|---------------|
|                  | Vicuñas Censadas    | Ha               | % Poblac      | Vicuñas Censadas           | Ha               | % Poblac      | Vicuñas Censadas    | Ha               | % Poblac      |
| 1.- Arequipa     | 18,455              | 753,000          | 27.73         | 33,377                     | 753,000          | 32.35         | 40,390              | 753,000          | 34.03         |
| 2.- Puno         | 8,618               | 1,700,783        | 12.95         | 14,307                     | 1,732,935        | 13.87         | 18,107              | 1,732,935        | 15.26         |
| 3.- Lima         | 12,285              | 281,765          | 18.46         | 15,961                     | 281,756          | 16.44         | 17,689              | 281,765          | 14.91         |
| 4.- Junín        | 7,105               | 233,929          | 10.68         | 10,515                     | 292,369          | 10.19         | 11,408              | 292,369          | 9.61          |
| 5.- Apurímac     | 10,573              | 832,182          | 15.85         | 11,551                     | 330,400          | 11.20         | 10,020              | 330,400          | 8.44          |
| 6.- Huancavelica | 1,902               | 27,424           | 2.86          | 3,750                      | 679,657          | 6.54          | 8,745               | 679,657          | 7.37          |
| 7.- Cusco        | 1,049               | 966,304          | 2.70          | 2,017                      | 307,300          | 2.73          | 4,205               | 307,300          | 3.55          |
| 8.- Arequipa     | 2,079               | 774,180          | 3.12          | 2,898                      | 774,180          | 2.81          | 3,681               | 774,180          | 3.10          |
| 9.- Ica          |                     |                  |               | 1,905                      | 70,171           | 1.85          | 1,583               | 70,171           | 1.33          |
| 10.- Tacna       | 487                 | 293,728          | 0.73          | 720                        | 288,728          | 0.70          | 1,214               | 288,728          | 1.02          |
| 11.- Ancash      | 551                 | 263,136          | 0.99          | 594                        | 709,795          | 0.58          | 684                 | 709,795          | 0.58          |
| 12.- Pasco       | 248                 | 48,592           | 0.37          | 55                         | 48,592           | 0.05          | 343                 | 48,592           | 0.29          |
| 13.- Moquegua    | 1,305               | 224,408          | 1.96          | 294                        | 227,711          | 0.25          | 293                 | 227,711          | 0.25          |
| 14.- Cajamarca   |                     |                  |               | 72                         | 100              | 0.07          | 235                 | 600              | 0.20          |
| 15.- Huanuco     | 365                 | 32,820           | 1.30          | 316                        | 32,820           | 0.31          | 51                  | 32,820           | 0.04          |
| 16.- La Libertad | 120                 | 165,886          | 0.18          | 28                         | 51,445           | 0.03          | 26                  | 51,445           | 0.02          |
| <b>TOTAL</b>     | <b>68,559</b>       | <b>6,528,137</b> | <b>100.00</b> | <b>103,161</b>             | <b>6,650,998</b> | <b>100.00</b> | <b>118,676</b>      | <b>6,661,198</b> | <b>100.00</b> |

Source: CONACS

Translation of the text in the table above, from top to bottom and left to right: Survey; department; vicuñas surveyed; ha; % of population;

In the latest national survey made in 2000 in Peru, 118,676 individuals were directly counted. Along with an estimation of a few populations that had not been surveyed, the total figure estimated for Peru was of about 130,000 individuals. In spite of the poaching outbreaks that occur every few years, estimates of population increases have led to projecting a population of 188,327 individuals in 2006 in Peru. Such estimates are based on direct reports from vicuña rural management units, fiber production volumes and reports from the field officials of CONACS (National Council of South American Camelids) supervising the fiber harvest operations.

## Projection of vicuña populations in Peru, 2001–2006 period

| N° | DEPARTMENT   | SURFACE<br>Ha.   | 2000<br>Survey | 2001<br>Project. | 2002<br>Project | 2003<br>Project. | 2004<br>Project | 2005<br>Project | 2006<br>Project |
|----|--------------|------------------|----------------|------------------|-----------------|------------------|-----------------|-----------------|-----------------|
| 1  | AYACUCHO     | 753 000          | 40 390         | 43 621           | 47 111          | 50 880           | 54 959          | 59,346          | 64,094          |
| 2  | PUNO         | 1 732 935        | 18 107         | 19 556           | 21 120          | 22 810           | 24 634          | 26,605          | 28,733          |
| 3  | LIMA         | 281 765          | 17 689         | 19 104           | 20 632          | 22 283           | 24 066          | 25,991          | 28,071          |
| 4  | JUNIN        | 292 369          | 11 408         | 12 321           | 13 306          | 14 371           | 15 520          | 16,762          | 18,103          |
| 5  | APURIMAC     | 330 400          | 10 020         | 10 822           | 11 687          | 12 622           | 13 632          | 14,723          | 15,900          |
| 6  | HUANCAVELICA | 679 657          | 8 745          | 9 445            | 10 200          | 11 016           | 11 897          | 12,849          | 13,877          |
| 7  | CUZCO        | 387 330          | 4 209          | 4 546            | 4 909           | 5 302            | 5 726           | 6,184           | 6,679           |
| 8  | AREQUIPA     | 774 180          | 3 681          | 3 975            | 4 294           | 4 637            | 5 008           | 5,409           | 5,841           |
| 9  | ICA          | 70 171           | 1 583          | 1 710            | 1 846           | 1 994            | 2 154           | 2,326           | 2,512           |
| 10 | TACNA        | 288 728          | 1 214          | 1 311            | 1 416           | 1 529            | 1 652           | 1,784           | 1,927           |
| 11 | ANCASH       | 709 795          | 684            | 739              | 798             | 862              | 931             | 1,005           | 1,086           |
| 12 | PASCO        | 48 592           | 343            | 370              | 400             | 432              | 467             | 504             | 545             |
| 13 | MOQUEGUA     | 227 711          | 293            | 316              | 342             | 369              | 399             | 431             | 465             |
| 14 | CAJAMARCA    | 600              | 235            | 254              | 274             | 296              | 320             | 346             | 373             |
| 15 | HUANUCO      | 32 820           | 51             | 55               | 59              | 64               | 69              | 75              | 80              |
| 16 | LA LIBERTAD  | 51 445           | 26             | 28               | 30              | 33               | 35              | 38              | 41              |
|    | <b>TOTAL</b> | <b>6 661 498</b> | <b>118 678</b> | <b>128 172</b>   | <b>138 426</b>  | <b>149 500</b>   | <b>161 460</b>  | <b>174,378</b>  | <b>188,327</b>  |

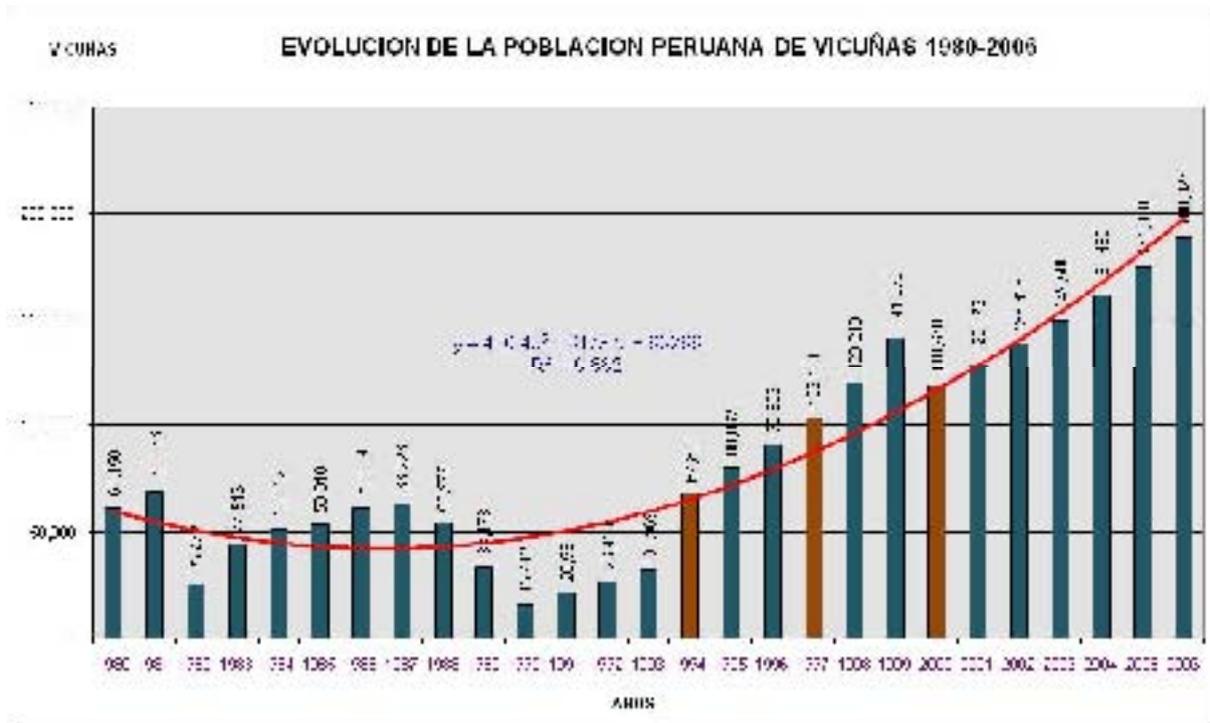
Source: National Survey 2000 and Projections by CONACS. Adaptation: Domingo Hocés

### 1.4.2. Current global population trends:

Increasing     Decreasing     Stable     Unknown

According to the population data provided by the countries of origin every year, the population has been experiencing a gradual increase over the last 10 years. The trend seems to be approaching its turning point before starting to get closer to the natural asymptote determined by the species' population carrying capacity as well as the intrinsic limitations of the other activities that take place in the habitat it occupies.

To appreciate the trend of the Peruvian vicuña population, it is necessary to start by looking at the period from the 1980s to 1993, when close to 3 million hectares were controlled by the *Proyecto Especial Utilización Racional de la Vicuña* (Special Project for the Rational Use of Vicuña). A critical period began in 1987 with the influence of subversive actions in Peru, which led to the virtual disappearance of the vicuña program until 1993. Another stage began in 1994 with the gradual decline of the subversion, the opening of the legal fiber market due to the change in the CITES Appendices and favorable agreements reached in the Vicuña Convention. This was the stage of population recovery, which still continues. The positive change is reflected in the difference between the population figures in the surveys made in 1994 and 1997.



Translation of the text in the table above: Evolution of the vicuña population of Peru 1980-2006; years

## 1.5. Conservation status

### 1.5.1. Global conservation status (according to the IUCN Red List):

- Critically endangered       Least concern  
 Endangered                       Near threatened  
 Vulnerable                           Data deficient

### 1.5.2. Conservation status in the country for which the case study is presented

The classification of endangered wild animals in Peru (*Categorización de las Especies amenazadas de Fauna Silvestre*) was updated and approved by Supreme Decree No. 034-2004-AG of 17 September 2004. The vicuña is included in the category NEAR THREATENED in this classification.

### 1.5.3. Main threats in the country for which the case study is presented

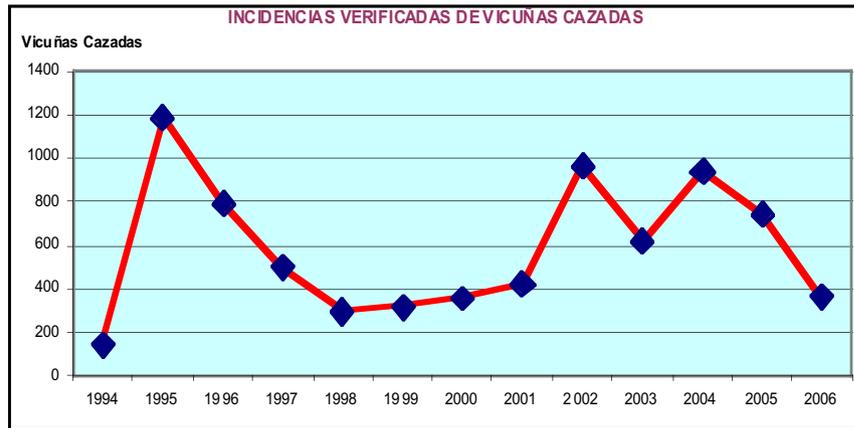
- No threats  
 Habitat loss / degradation (human induced)  
 Invasive Alien Species (that directly affect the species)  
 Direct exploitation (hunting / harvesting)  
 Incidental mortality (e.g., due to manipulation)  
 Persecution (e.g., pest control)

- Pollution (affecting the habitat and/or the species)
- Other:  Farming interests, hybridization
- Unknown

**INCIDENCIAS DE CACERIA FURTIVA DE VICUÑAS 1994 - 2006**

| Nº           | DEPARTAMENTO | VICUNAS CAZADAS |              |            |            |            |            |            |            |            |            |            |            |            | TOTAL        | %             |
|--------------|--------------|-----------------|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------|---------------|
|              |              | 1994            | 1995         | 1996       | 1997       | 1998       | 1999       | 2000       | 2001       | 2002       | 2003       | 2004       | 2005       | 2006       |              |               |
| 1            | AYACUCHO     | 46              | 415          | 281        | 190        | 86         | 35         | 19         | 217        | 389        | 287        | 189        | 149        | 192        | <b>2,495</b> | 32.64         |
| 2            | LIMA         | 0               | 104          | 166        | 41         | 0          | 47         | 29         | 46         | 345        | 138        | 426        | 34         | 14         | <b>1,390</b> | 18.18         |
| 3            | APURMAC      | 0               | 219          | 219        | 151        | 98         | 61         | 19         | 19         | 72         | 93         | 0          | 0          | 58         | <b>1,009</b> | 13.20         |
| 4            | HUANCAVELICA | 0               | 51           | 0          | 0          | 0          | 81         | 174        | 75         | 22         | 29         | 292        | 59         | 100        | <b>883</b>   | 11.55         |
| 5            | PUNO         | 98              | 179          | 68         | 92         | 112        | 16         | 31         | 12         | 0          | 7          | 0          | 107        | 0          | <b>722</b>   | 9.45          |
| 6            | ICA          | 0               | 98           | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 0          | 260        | 0          | <b>358</b>   | 4.68          |
| 7            | JUNIN        | 1               | 3            | 2          | 18         | 0          | 9          | 13         | 7          | 132        | 59         | 14         | 98         | 0          | <b>356</b>   | 4.66          |
| 8            | CUSCO        | 0               | 115          | 55         | 0          | 0          | 45         | 20         | 27         | 0          | 2          | 12         | 0          | 0          | <b>276</b>   | 3.61          |
| 9            | AREQUIPA     | 0               | 2            | 0          | 9          | 0          | 25         | 52         | 20         | 0          | 5          | 5          | 37         | 0          | <b>155</b>   | 2.03          |
| <b>TOTAL</b> |              | <b>145</b>      | <b>1,186</b> | <b>791</b> | <b>501</b> | <b>296</b> | <b>319</b> | <b>357</b> | <b>423</b> | <b>960</b> | <b>620</b> | <b>938</b> | <b>744</b> | <b>364</b> | <b>7,644</b> | <b>100.00</b> |

Fuente: Oficinas Regionales del CONACS. Elaboración Domingo Hocoes



Translation of the text in the table and chart above: Table: Incidence of Vicuña Poaching 1994-2006; Department; vicuñas hunted; Chart: Verified Incidence of Vicuñas Hunted; vicuñas hunted.

In 1995, the verified number of vicuñas killed by poachers in Peru exceeded 1,100 individuals yearly; these figures were reduced to an average of 300 individuals in the following 3 years. Overall, the average number was slightly over 600 animals killed by poaching (see the table and chart above). However, this figure increased again to 1,305 individuals between 2002 and 2004. These numbers are still far from the levels that really endangered the Peruvian population of vicuña in the years before 1995, when annual levels of vicuñas killed may well have reached a number close to 18,000 individuals.

Since the improvements made in the construction of the road linking Arequipa and Juliaca in the south of Peru, started by the Ministry of Transport in 1999 and involving 80 km in the Reserva Nacional de

Salinas and Aguada Blanca, a protected area, frequent deaths of vicuñas due to road accidents have been reported. Corrective measures have been taken to reduce such incidents by signaling animal crossings and speed limits in critical stretches. A video has also been prepared to raise awareness about the problem of vicuñas killed in road accidents among drivers and passengers at the Arequipa bus station.

Since 2006, a number of public officials and academics specialized in animal husbandry have promoted the hybridization of vicuñas—crossing vicuñas and alpacas—with great insistence and political scope. They argue that the hybrids would bring about greater technical and commercial advantages than vicuñas and alpacas in alleviating the poverty of the Peruvian Andes. This has been rejected by the Peruvian scientific community and specialized press, international conservation organizations and the Vicuña Convention.

**ESPECIAL SEMANA DE BANDERA**  
 El special de **ESPECIAL SEMANA DE BANDERA**  
 Nuestro segundo icono del ascenso en la grilla y delenda vicuña. La fibra que lo cubre lo convierte en la especie más valiosa de los camélidos y a la vez la más vulnerable

# La eterna lucha de la vicuña

COMUNICACIÓN SOCIAL

Zanujeros que allí vivían cuando los vicuñas de sus rebaños sufrían el maltrato de los vicuñeros. Hoy, adelantado por el desarrollo turístico de los centros de valle, se han ido y con ellos sus rebaños. Hoy, que el maltrato de los vicuñas es un tema recurrente, para tener un punto de vista.

Se debe a los vicuñeros que en los últimos años se han ido y con ellos sus rebaños. Hoy, que el maltrato de los vicuñas es un tema recurrente, para tener un punto de vista.

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## La reina de los camélidos

El vicuña es el más valioso de los camélidos andinos. Su fibra es la más fina y suave que se produce en el mundo.

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**Los camélidos**  
 Los camélidos son animales que viven en las zonas altas de los Andes. Son muy resistentes al frío y pueden sobrevivir en condiciones extremas.

**El vicuña**  
 El vicuña es el más valioso de los camélidos andinos. Su fibra es la más fina y suave que se produce en el mundo.

**El guanaco**  
 El guanaco es el más grande de los camélidos andinos. Su fibra es gruesa y se utiliza para hacer tejidos.

**El alpaca**  
 El alpaca es el más común de los camélidos andinos. Su fibra es suave y se utiliza para hacer tejidos.

**El vicuña**  
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**VICUÑA DE LA PUNA.** Las vicuñas peruanas representan más del 60% del total de la población mundial de esta especie.

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Translation of the heading of the article: The eternal struggle of the vicuña

## **2. MANAGEMENT OF THE SPECIES IN THE COUNTRY FOR WHICH THE CASE STUDY IS PRESENTED**

### **2.1. Management measures**

The management measures mainly aim at maintaining a minimum sustainable population for the use of the vicuña's valuable fiber. However, there are other indirect uses for vicuñas such as ecotourism. For this purpose, it is necessary to protect the populations from illegal trade, periodically monitor the population groups, carry out research on management technology and develop the results, implement appropriate legislation and promote a controlled and fair market for the farmers' economic interests.

#### *2.1.1. Management history*

##### **POLICIES IMPLEMENTED**

In times of the Incas:

- Practice of the "CHACCU"
- Fiber for nobility only
- Meat of vicuñas and other species for the people

In present times:

- Until 1978: Protection, dissemination
- 1980 – 1990: Development of technology (Vicuña Project)
- 1994 – 2000: Participation of rural communities and opening of the international market, association with the other camelids (Creation of CONACS)
- 2001 – Present: Commercial use with little interference by the State

#### *2.1.2. Purpose of the management plan*

Conserve the species by reducing poaching, increase the population and maintain sustainable levels, use the fiber obtained through the shearing of live animals, sell the fiber in the best possible conditions to benefit the people in the high Andes.

#### *2.1.3. General elements of the management plan*

- Conservation of the species, guaranteeing its sustainability
- Role of the State, through appropriate legislation and policies
- Participation of local people in management decisions and benefits

#### *2.1.4. Restoration or mitigation measures*

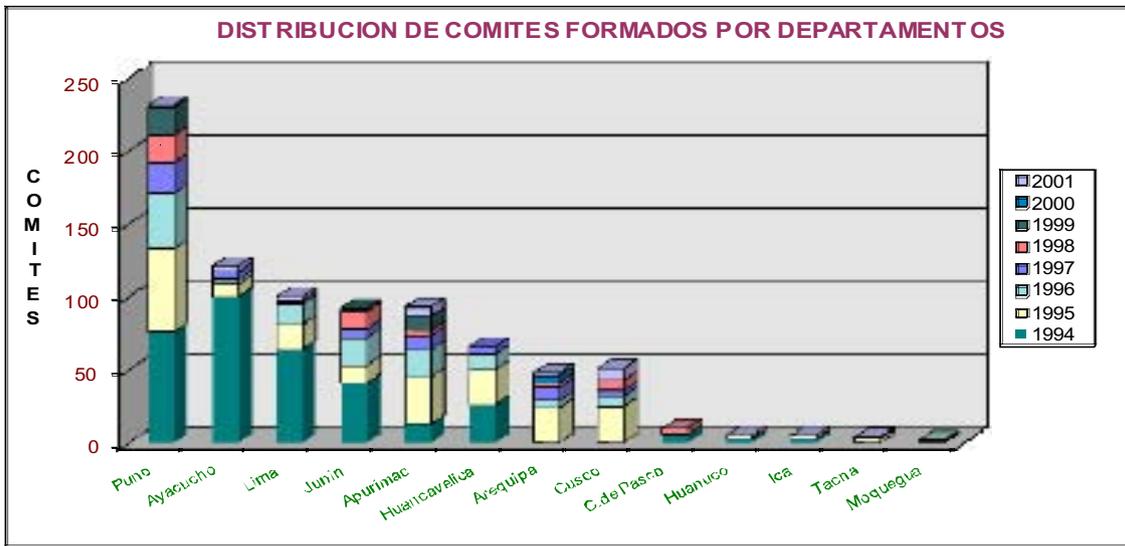
One of the alleviating or reinforcing measures for the conservation of vicuñas has been to promote the active and direct participation of rural people in the conservation and benefits of the use of vicuñas.

This was first done through the membership of the so-called VICUÑA COMMITTEES and later through restocking programs in the country.

**COMITES COMUNALES DE VICUÑAS FORMADOS Y RECONOCIDOS POR EL CONACE**

| DEPARTAMENTO  | 1994       |            | 1995       |            | 1996       |            | 1997      |          | 1998      |            | 1999      |          | 2000     |          | 2001      |          | TOTAL 1994-2001 |       |            |       |
|---------------|------------|------------|------------|------------|------------|------------|-----------|----------|-----------|------------|-----------|----------|----------|----------|-----------|----------|-----------------|-------|------------|-------|
|               | F.         | R.         | F.         | R.         | F.         | R.         | F.        | R.       | F.        | R.         | F.        | R.       | F.       | R.       | F.        | R.       | F.              | R.    | %          |       |
| L. Puno       | 74         | 73         | 87         | 81         | 50         | 51         | 21        | 0        | 16        | 45         | 19        | 0        | 1        | 0        | 3         | 3        | 324             | 27.83 | 241        | 28.83 |
| L. Arequipa   | 102        | 100        | 8          | 2          | 3          | 7          | 2         | 0        | 0         | 3          | 0         | 0        | 0        | 0        | 1         | 2        | 128             | 14.58 | 117        | 13.61 |
| L. Tarma      | 04         | 06         | 17         | 2          | 14         | 4          | 2         | 0        | 0         | 14         | 0         | 0        | 2        | 0        | 2         | 2        | 48              | 13.30 | 88         | 11.08 |
| L. Arequipa   | 48         | 41         | 12         | 2          | 18         | 45         | 8         | 0        | 12        | 13         | 2         | 0        | 0        | 0        | 3         | 3        | 89              | 11.08 | 84         | 8.82  |
| L. Arequipa   | 18         | 18         | 82         | 11         | 18         | 17         | 0         | 0        | 4         | 28         | 10        | 0        | 0        | 0        | 8         | 2        | 88              | 11.20 | 79         | 13.24 |
| L. Arequipa   | 28         | 28         | 54         | 14         | 14         | 11         | 0         | 0        | 0         | 8          | 0         | 0        | 0        | 0        | 0         | 0        | 88              | 7.85  | 88         | 8.28  |
| L. Arequipa   | 0          | 0          | 54         | 0          | 8          | 18         | 0         | 0        | 8         | 18         | 0         | 0        | 8        | 0        | 3         | 3        | 48              | 8.78  | 39         | 6.62  |
| L. Arequipa   | 0          | 0          | 26         | 0          | 7          | 12         | 1         | 0        | 2         | 0          | 0         | 0        | 0        | 0        | 0         | 0        | 33              | 8.11  | 30         | 6.05  |
| L. Cuzco Puno | 0          | 0          | 0          | 0          | 0          | 0          | 0         | 0        | 1         | 1          | 0         | 0        | 0        | 0        | 2         | 2        | 48              | 1.20  | 48         | 1.95  |
| U. Arequipa   | 3          | 3          | 2          | 2          | 0          | 0          | 0         | 0        | 0         | 0          | 0         | 0        | 0        | 0        | 0         | 0        | 8               | 0.88  | 8          | 0.70  |
| U. Arequipa   | 3          | 3          | 2          | 0          | 0          | 0          | 0         | 0        | 0         | 1          | 0         | 0        | 0        | 0        | 0         | 0        | 8               | 0.88  | 4          | 0.58  |
| U. Arequipa   | 0          | 0          | 2          | 0          | 0          | 2          | 0         | 0        | 0         | 1          | 1         | 0        | 0        | 0        | 0         | 0        | 4               | 0.44  | 4          | 0.68  |
| U. Arequipa   | 0          | 0          | 1          | 0          | 1          | 1          | 0         | 0        | 0         | 1          | 0         | 0        | 0        | 0        | 0         | 0        | 8               | 0.24  | 8          | 1.08  |
| <b>TOTAL</b>  | <b>331</b> | <b>330</b> | <b>266</b> | <b>486</b> | <b>147</b> | <b>133</b> | <b>61</b> | <b>0</b> | <b>48</b> | <b>148</b> | <b>32</b> | <b>0</b> | <b>8</b> | <b>0</b> | <b>28</b> | <b>8</b> | <b>638</b>      |       | <b>943</b> |       |

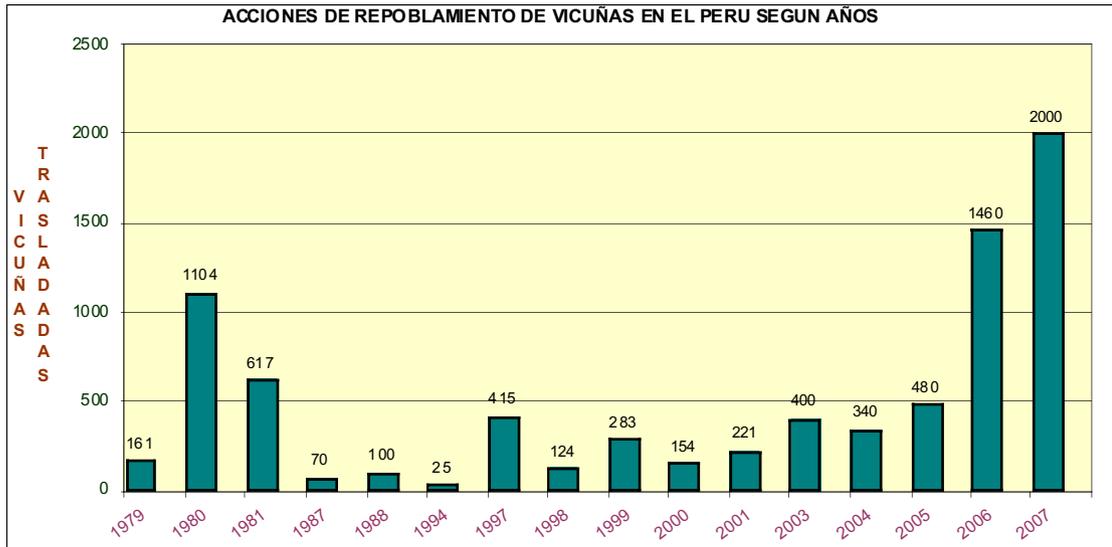
Fuente: Oficina Ejecutiva CONACE. Elaboración: Prosiaga-Brown  
 F. = Comités formados  
 R. = Comités reconocidos por el CONACE



ACCIONES DE REPOBLAMIENTO DE VICUÑAS EN EL PERU 1979 - 2007

| LOCALIDAD ORIGEN | LOCALIDAD DESTINO  | 1979       | 1980        | 1981       | 1987      | 1988       | 1994      | 1997       | 1998       | 1999       | 2000       | 2001       | 2003       | 2004       | 2005       | 2006        | 2007        | TOTAL       |         |       |
|------------------|--------------------|------------|-------------|------------|-----------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|-------------|-------------|---------|-------|
|                  |                    |            |             |            |           |            |           |            |            |            |            |            |            |            |            |             |             |             | VICUÑAS | %     |
| Pam pa Gale ras  | 1.- Junin          |            | 395         | 617        |           |            |           |            |            |            |            |            |            |            |            |             |             |             | 1,012   | 12.72 |
| Pam pa Gale ras  | 2.-Huanavelica     | 121        | 601         |            |           |            |           |            |            |            |            |            | 400        |            |            | 500         |             |             | 1,622   | 20.39 |
| Andamarca        | Huanavelica        |            |             |            |           |            |           |            |            |            |            |            |            |            | 120        |             |             |             | 120     | 1.51  |
| Pam pa Gale ras  | 3.- Arequipa       | 40         |             |            |           |            |           | 95         |            |            |            |            |            |            |            |             |             |             | 135     | 1.70  |
| Arequipa         | Arequipa           |            |             |            |           |            |           |            |            |            | 74         | 78         |            |            |            |             |             |             | 152     | 1.91  |
| Pam pa Gale ras  | 4.- Anca sh        |            | 108         |            |           |            |           | 100        |            |            |            |            |            |            |            |             |             |             | 208     | 2.62  |
| Junin            | Anca sh            |            |             |            |           |            |           |            |            |            |            | 50         |            | 53         |            |             |             |             | 103     | 1.29  |
| Pam pa Gale ras  | 5.-ECUADOR         |            |             |            |           | 100        |           |            |            | 100        |            |            |            |            |            |             |             |             | 200     | 2.51  |
| Pam pa Gale ras  | 6.- Cajamarca      |            |             |            |           |            | 25        | 170        |            |            |            |            |            |            |            | 240         |             |             | 435     | 5.47  |
| Pam pa Gale ras  | 7.-C.de Pasco      |            |             |            |           |            |           | 50         |            | 72         |            |            |            |            |            |             |             |             | 122     | 1.53  |
| Junin            | C.de Pasco         |            |             |            |           |            |           |            |            |            | 29         |            |            |            |            |             |             |             | 29      | 0.36  |
| Apurimac         | 8.-Cusco           |            |             |            |           |            |           |            | 100        |            |            |            |            |            |            |             |             |             | 100     | 1.26  |
| Puno             | 9.-Puno            |            |             |            |           |            |           |            |            | 74         |            |            |            | 47         |            |             |             |             | 121     | 1.52  |
| Pam pa Gale ras  | 10.-La Libertad    |            |             |            | 70        |            |           |            |            |            |            |            |            | 240        |            | 240         |             |             | 550     | 6.91  |
| Puno             | La Libertad        |            |             |            |           |            |           |            |            |            |            |            |            |            |            |             | 2000        |             | 2,000   | 25.14 |
| Pam pa Gale ras  | 11.-Pampa Gale ras |            |             |            |           |            |           |            |            | 37         | 51         | 69         |            |            | 120        |             |             |             | 277     | 3.48  |
| Apurimac         | 12.-Apurimac       |            |             |            |           |            |           |            | 24         |            |            | 24         |            |            |            |             |             |             | 48      | 0.60  |
| Pam pa Gale ras  | Apurimac           |            |             |            |           |            |           |            |            |            |            |            |            |            |            | 480         |             |             | 480     | 6.03  |
| Cabana           | Apurimac           |            |             |            |           |            |           |            |            |            |            |            |            |            | 240        |             |             |             | 240     | 3.02  |
| <b>TOTAL</b>     | <b>TOTAL</b>       | <b>161</b> | <b>1104</b> | <b>617</b> | <b>70</b> | <b>100</b> | <b>25</b> | <b>415</b> | <b>124</b> | <b>283</b> | <b>154</b> | <b>221</b> | <b>400</b> | <b>340</b> | <b>480</b> | <b>1460</b> | <b>2000</b> | <b>7954</b> |         |       |

Fuente: Ex Proyecto Especial Vicuña, Proyecto Barbara D'Achile, Ofregionales CONACS. Elaboración: Domingo Hoces



Translation of the text in the tables and charts above: Table 1: Vicuña committees formed and recognized by CONACS; F: committees formed; R: committees recognized by CONACS; Chart 1: Distribution of committees formed by Department; Table 2: Restocking of vicuñas in Peru 1979-2007; origin; destination; Chart 2: Restocking of vicuñas in Peru by year;

## 2.2. Monitoring system

### 2.2.1. Methods used to monitor the harvest

Given the broad territorial distribution of the vicuña in Peru as well as its numerous beneficiaries, direct control of the fiber harvest in the field was very limited. Consequently, the Single Register of Wild South American Camelids (*Registro Único de Camélidos Sudamericanos Silvestres*) was established by the legislation on the Vicuña (*Reglamento de la Ley de la Vicuña*) to control the conservation, management and use of the vicuña in Peru. The Certificate of the Single Register of Wild South American Camelids – RUCSSP is issued for this purpose. Although 430 RUCSSP certificates were programmed for the period between July 2006 and June 2007, 522 certificates were actually issued, exceeding the estimations for the period by 121.40%.

Summary of RUCSS certificates issued in the July 2006-June 2007 period

| Mes                            | Producción de Producción |                        |                    |              |            | Transformación | Prendas de Vestir |           | Ejecución del Proyecto |              |               |
|--------------------------------|--------------------------|------------------------|--------------------|--------------|------------|----------------|-------------------|-----------|------------------------|--------------|---------------|
|                                | Fibra Sueta              | Fibra Pre-desarrollada | Fibra Desarrollada | Fibra Lavada | Fibra Fina |                | Hilo              | Tela      | Prendas                | Programación | Ejecución     |
| Periodo Julio - Diciembre 2006 |                          |                        |                    |              |            |                |                   |           |                        |              |               |
| Julio                          | 18                       | 0                      | 0                  | 1            | 0          | 0              | 2                 | 1         | 36                     | 22           | 62.86         |
| Agosto                         | 22                       | 0                      | 0                  | 0            | 2          | 0              | 9                 | 7         | 29                     | 39           | 144.00        |
| Setiembre                      | 4                        | 17                     | 0                  | 0            | 0          | 0              | 0                 | 0         | 35                     | 21           | 38.18         |
| Octubre                        | 14                       | 42                     | 10                 | 0            | 0          | 0              | 2                 | 1         | 26                     | 19           | 276.00        |
| Noviem                         | 26                       | 4                      | 4                  | 0            | 0          | 0              | 0                 | 0         | 50                     | 33           | 66.00         |
| Diciem                         | 7                        | 0                      | 0                  | 0            | 0          | 4              | 6                 | 6         | 40                     | 21           | 62.50         |
| Periodo Enero - Junio 2007     |                          |                        |                    |              |            |                |                   |           |                        |              |               |
| Enero                          | 46                       | 0                      | 0                  | 0            | 0          | 0              | 11                | 7         | 30                     | 13           | 106.00        |
| Febrero                        | 41                       | 13                     | 0                  | 0            | 0          | 2              | 3                 | 14        | 30                     | 73           | 146.00        |
| Marzo                          | 64                       | 22                     | 6                  | 0            | 0          | 2              | 0                 | 0         | 40                     | 64           | 216.00        |
| Abril                          | 12                       | 8                      | 2                  | 0            | 0          | 0              | 0                 | 0         | 30                     | 22           | 73.33         |
| Mayo                           | 6                        | 22                     | 26                 | 0            | 0          | 4              | 4                 | 18        | 10                     | 73           | 730.00        |
| Junio                          | 2                        | 0                      | 0                  | 0            | 0          | 1              | 0                 | 2         | 10                     | 5            | 60.00         |
| <b>TOTAL:</b>                  | <b>249</b>               | <b>128</b>             | <b>47</b>          | <b>1</b>     | <b>2</b>   | <b>13</b>      | <b>32</b>         | <b>60</b> | <b>430</b>             | <b>522</b>   | <b>121.40</b> |

Fuente: Programa de Conservación CCNVR

### 2.2.2. Confidence in monitoring

Confidence is based on the fact that the successive records corresponding to the various stages of the harvest, processing and marketing of vicuña fiber are related to one another and to their origin, which makes it difficult to falsify information.

## 2.3. Legal framework and law enforcement

In Peru, several national laws protect vicuñas and regulate their management and use. The most important and directly applied example is

Act 26495 of 23 June 1995 and its Regulation adopted by Supreme Decree No. 007-96 -AG of 7 June 1996. This Act establishes the ownership and marketing regime, as well as sanctions for hunting vicuñas, guanacos and their hybrids. The Forest and Wildlife Act (*Ley Forestal y de Fauna Silvestre*) of 13 May 1975 and its Regulation on Wildlife Conservation (*Reglamento de Conservación de Fauna y Flora Silvestre*) adopted by Supreme Decree No. 158-77- AA of March 1977 are still valid. They apply to vicuñas as a wildlife species by regulating authorizations for scientific and commercial use and establishing sanctions for infringements. Legislative Decree No. 653 (Act on the Promotion on Investments in the Agricultural Sector) of 1991 and its Regulation adopted by Supreme Decree No. 048-91-AG authorizes the harvest (i.e. slaughter) of vicuñas when it is technically justified and endorsed by a Ministerial Resolution, among other aspects currently covered by Act 26496.

Until Act 26496 entered into force, the Penal Code established very limited penalties for illegal vicuña hunters (considering the slaughter of vicuñas as a crime against the environment and natural resources). Such penalties have been increased with Act 26496.

Since 1995, there have been no significant changes in legislation regarding vicuñas to reduce their protection. Supreme Decree No. 007-96-AG was readjusted in 2004 regarding the gathering of fiber, trade in the products and the use of the official brand in their trade (Supreme Decree No. 008-2004-AG and Supreme Decree No. 006-2005-AG of January 2005, which modifies Art. 30 of Supreme Decree No. 008-2005-AG regarding the granting of the brands VICUÑA PERU and VICUÑA PERU ARTESANIA). Several recently issued regulations are favorable for the management of the species. One of them is the issuance of Supreme Decree No. 034-2004-AG of 17 September 2004, which approves the Classification of Endangered Species of Wild Animals, according to which the vicuña is NEAR THREATENED (NT). On 9 February 2005, Supreme Decree No. 010-2005-AG was issued, "designating the National Council of South American Camelids – CONACS as the CITES Management Authority regarding Wild South American Camelids (CITES-CONACS)."

Another legal instrument that benefits the vicuña is the Vicuña Convention signed by Peru, Bolivia, Chile and Ecuador in 1979.

Peru has participated continuously and actively in the 26 regular annual meetings and 5 extraordinary meetings held so far. Through this instrument, the vicuña has benefited from a general management with important results: first, the vicuña was saved from extinction throughout its range with a joint protection strategy applied in all the range States simultaneously. Technology for the management of the

species was later developed by exchanging experiences with each Government through the meetings of the Convention and special technical meetings. Since 1987, the Vicuña Convention has had a decisive participation in the achievements reached in vicuña conservation, especially the populations of Peru and Chile. Indeed, the international trade in fabric made of vicuña fiber was first opened during the VI Conference of the Parties using the brands "VICUÑANDES" and "PRE-CITES". Vicuñas from Peru, Chile and Bolivia were reintroduced in Ecuador between 1988 and 1993 thanks to the support and the agreements reached in the Convention. In the 1992-1994 period, the proposal to downlist the Peruvian vicuña population from Appendix I to Appendix II of the CITES Convention was successful. Since then, the use of the Peruvian vicuña population has directly benefited more than 700 rural communities of the high Andes, protecting the species from a resurgence of poaching. The fabric can now be manufactured anywhere in the world, which provides access to the best textile manufacturing techniques and therefore leads to the best quality and prices for finished products; an authorization was also obtained to process and market over three tons of fiber from dead animals from seized materials and authorized slaughters since 1980.

In the X Conference of the Parties to the CITES Convention in 1997, the support of the member countries of the Vicuña Convention led to downlisting most of the vicuña populations of Bolivia and Argentina to CITES Appendix II and allow the processing and international trade of luxury crafts and knitted articles made of vicuña fiber, changing the brand from "VICUÑANDES" to "VICUÑA." In 1998, on occasion of its 25th anniversary, the CITES Convention granted the Vicuña Convention a Certificate of Recognition for its outstanding contribution to the conservation of wildlife in the world. As the depositary of the Convention, Peru officially received the recognition.

### **3. UTILIZATION AND TRADE**

#### **3.1. *Type of use (origin) and purposes***

In Peru, since the legal market was opened in 1994, use of vicuñas involves only the fiber obtained from the shearing of live animals, supervised by the State for its international trade under CITES controls to directly benefit rural communities in the high Andes that manage vicuñas on their land. However, management of vicuñas in semi-captivity was introduced in 1996. It involves the use of 1,000 ha enclosures with metallic fences (sustainable use modules) housing 250-300 individuals. This system currently applies to 27,000 vicuñas, which amount to 80% of the annual production of fiber.



### Módulos de Uso Sustentable para la Crianza de Vicuñas En Semicautiverio

| Nº | DPTO.              | Nº DE GERCOS | Nº VICUÑAS AL 2003 | %      |
|----|--------------------|--------------|--------------------|--------|
| 1  | Ayacucho           | 75           | 5,183              | 19.39  |
| 2  | Apuñmac            | 30           | 3,740              | 14.99  |
| 3  | Arequipa           | 14           | 915                | 3.42   |
| 4  | Junin              | 25           | 4,516              | 17.38  |
| 5  | Ica - Huancavelica | 24           | 1,434              | 5.59   |
| 6  | Cusco              | 8            | 726                | 2.72   |
| 7  | Puno               | 65           | 9,036              | 35.90  |
| 8  | Limá               | 20           | 997                | 3.73   |
|    |                    | 267          | 26,737             | 100.00 |

Fuente: Programa de Camélidos Silvestres - CONACS (2001)

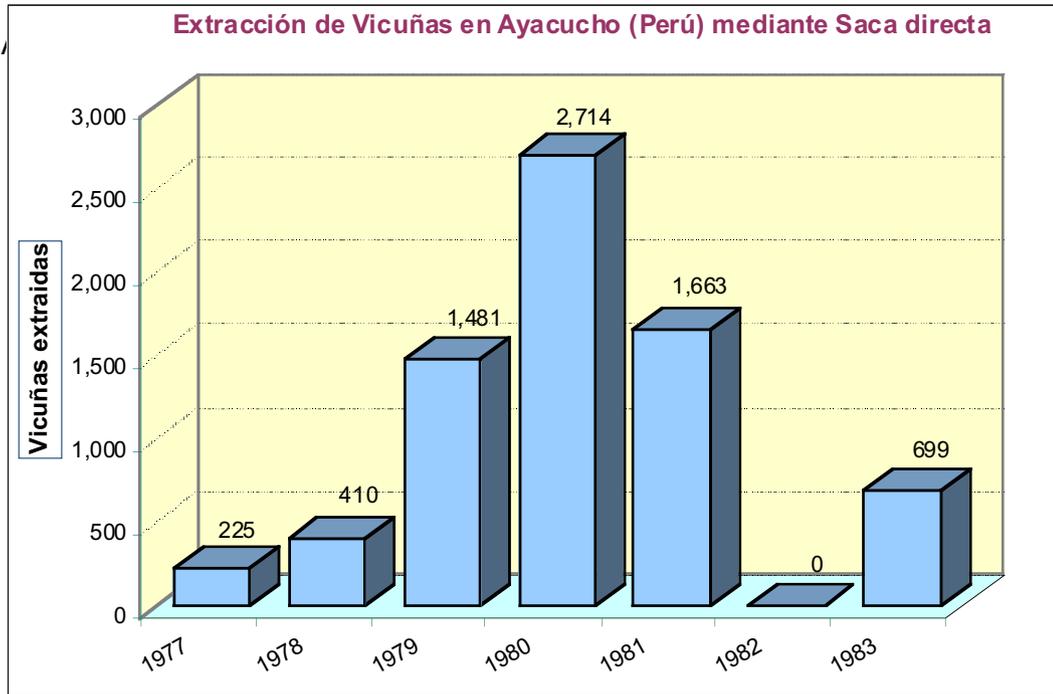
Translation of the text in the table above: Sustainable Use Modules for the Breeding of Vicuñas in Semi-captivity. Number; Department; number of enclosures; number of vicuñas in 2003;

## 3.2. Harvest

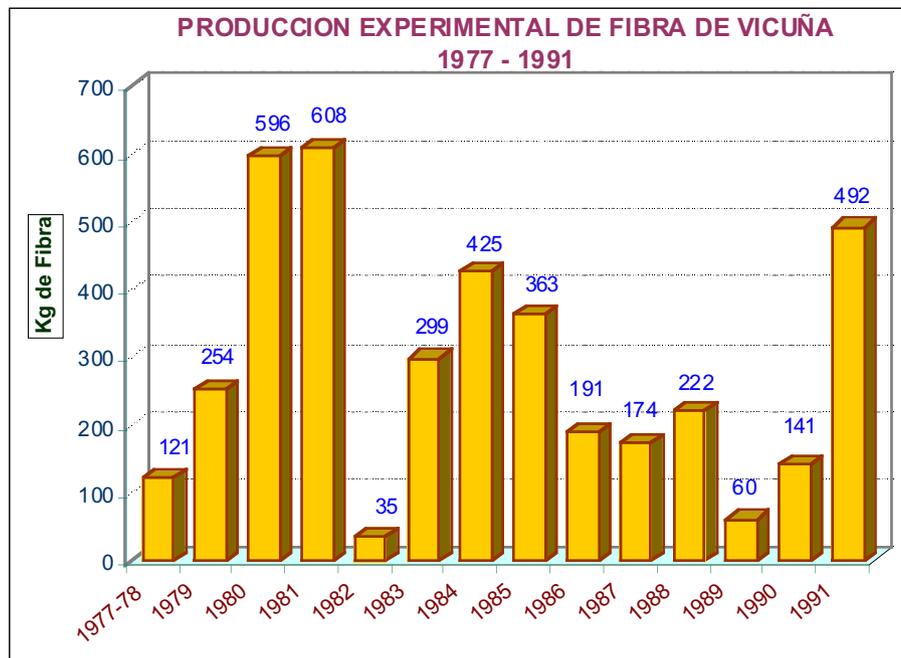
### 3.2.1. Harvesting regime

The harvesting regime refers exclusively to the use of the fiber obtained from the shearing of live animals. No fiber is harvested from hunted or

dead animals, except in one single case in Pampa Galeras in the first years of management, when the culling of over 7,000 individuals was authorized between 1977 and 1983 because of overpopulation. Between 1977 and 1981, there was also an experimental production of fiber.



Translation of the text of the chart above: Slaughter of vicuñas in Ayacucho (Peru)



FUENTE: Estadísticas del ex Proyecto Especial Vicuña. Elaboración: Domingo Hoces  
 Translation of the text in the chart above: Experimental production of vicuña fiber 1977-1991; kg of fiber

Commercial use of fiber began in 1994 with the opening of the legal market, with the direct and active participation of the rural organizations involved. Until 2006, about 46,000 kg of fiber had been produced.

| <b>Captura y Esquila</b> |                    |                    |
|--------------------------|--------------------|--------------------|
| Año                      | Vicuñas Capturadas | Vicuñas Esquiladas |
| 1994                     | 6 128              | 3 278              |
| 1995                     | 16 204             | 9 616              |
| 1996                     | 15 683             | 7 145              |
| 1997                     | 22 118             | 10 352             |
| 1998                     | 28 612             | 13 083             |
| 1999                     | 29 859             | 15 462             |
| 2000                     | 35 637             | 16 956             |
| 2001                     | 53 273             | 21 711             |
| 2002                     | 58 542             | 26 385             |
| 2003                     | 80 317             | 32 058             |
| 2004                     | 61 455             | 27 698             |
| 2005                     | 63 124             | 28 450             |
| 2006                     | 63 203             | 24 969             |

| <b>Produccion Fibra</b> |             |            |
|-------------------------|-------------|------------|
| Año                     | Kg de Fibra | Acum Fibra |
| 1994                    | 832         | 832        |
| 1995                    | 2,223       | 3,055      |
| 1996                    | 1,478       | 4,533      |
| 1997                    | 2,008       | 6,541      |
| 1998                    | 2,543       | 9,084      |
| 1999                    | 3,052       | 12,136     |
| 2000                    | 3,427       | 13,411     |
| 2001                    | 4,257       | 19,819     |
| 2002                    | 5,149       | 24,968     |
| 2003                    | 6,093       | 31,061     |
| 2004                    | 5,083       | 36,144     |
| 2005                    | 5,221       | 41,365     |
| 2006                    | 4,635       | 46,000     |

Fuente: Ex Proyecto Vicuña y CONACS. Elaboración: Domingo Hocés





**PRODUCCIÓN PRELIMINAR DE FIBRA EN EL AÑO 2002**

| Nº           | Departamento | Producción de fibra (kg) dentro de cercos | Producción de fibra (kg) fuera de cercos | TOTAL Kg         |
|--------------|--------------|---|--|------------------|
| 1            | Ayacucho     | 2.908,330                                 |  | 2.908,330        |
| 2            | Puno         | 473,573                                   |  | 473,573          |
| 3            | Junín        | 335,514                                   | 454,410                                  | 789,924          |
| 4            | Lima         | 176,110                                   |  | 176,110          |
| 5            | Apurímac     | 178,908                                   | 43,074                                   | 221,982          |
| 6            | Huancavelica | 51,350                                    | 90,960                                   | 142,310          |
| 7            | Ica          | 36,000                                    | 69,700                                   | 105,700          |
| 8            | Arequipa     | 72,320                                    | 40,587                                   | 113,007          |
| 9            | Cusco        | 31,652                                    | 69,044                                   | 100,696          |
| 10           | Tacna        | 21,367                                    |  | 21,367           |
| 11           | Pasco        | 24,045                                    |  | 24,045           |
| <b>TOTAL</b> |              | <b>4.309,219</b>                          | <b>767,575</b>                           | <b>5.076,794</b> |
| <b>%</b>     |              | <b>84,88</b>                              | <b>15,12</b>                             | <b>100,00</b>    |

Fuente: CDNACS. Elaboración: Domingo Hoces

Translation of the text in the tables and charts shown above: Table 1: Capture and shearing; vicuñas captured; vicuñas shorn; Fiber production; year; kg of fiber; fiber accumulated; Chart 1: Capture and shearing by year; vicuñas captured; vicuñas shorn; Chart 2: Fiber production by year; kg fiber; Table 2: Preliminary fiber yield in the year 2002; Number; Department; fiber yield (kg) in enclosures; fiber yield (kg) outside enclosures; total kg

### 3.2.2. Harvest management / control

The use of the fiber is controlled by the State through the following legal and institutional instruments:

- The Single Registry of Wild South American Camelids - RUCSS
- The control of the shearing season. Capture and shearing are only authorized in Peru between May and November every year.

Controls are reinforced through the so-called Technical Committee for Trade in Fiber (*Comité Técnico Comercialización de Fibra* – CTN). The CTN was established on 2 September 2004, and its Technical Secretariat is held by CONACS. The CTN is formed by three Sectors (the Production, Technical and Consumer Sectors) that represent the diverse players involved in the capture and shearing of vicuñas, research, processing, marketing and monitoring vicuña fiber. The Production Sector has 9 members who represent producer organizations (Rural Communities, Cooperatives, and Associations of Producers, among others) and service providers.

The Technical Sector is formed by 7 members that belong to public institutions devoted to research on vicuñas or wild South American camelids and a private researcher.

The Consumer Sector is formed by 5 members from companies linked to the processing and marketing of vicuña fiber. So far, the CTN has generated the NTP (Peruvian Technical Standard) *Fibra de Vicuña en Vellón: Definición y Determinación de la longitud de mecha* (NTP 231.350.2006) (Vicuña fiber in fleece. Definitions and determination of wick length), adopted by INDECOPI Resolution No. 0001-2006/CRT-INDECOPI, published on 30 January 2006 (INDECOPI is the Peruvian Consumer Protection Commission). The discussion and formulation of such regulations required 9 meetings of the CTN, which concluded on 6 September 2005.

The Draft Peruvian Technical Standard (PNTP) on the mechanical shearing of vicuña was concluded and adopted in 2007. It is the first standard proposed and adopted by the Technical and Commercial Regulation Commission of INDECOPI.

### 3.3. Legal and illegal trade levels:

Legal trade of fiber in Peru represents an annual production of around 5,000 kg, 20% of which is produced in Peru, while the rest is directly exported by the regional groups of beneficiary communities under the supervision of the State through the CITES Authority and the RUCSS register. Illegal trade is probably proportional to the number of ani-

mals killed by poachers, although its incidence levels are currently under control.

## II. NON-DETRIMENT FINDING PROCEDURE (NDFs)

- 1. IS THE METHOD USED BASED ON THAT PROPOSED BY THE IUCN?**  
 Yes     No
- 2. CRITERIA, PARAMETERS AND/OR INDICATORS USED**  
Direct information from activities devoted to the conservation, management and use of the vicuña in Peru.
- 3. MAIN SOURCES OF INFORMATION, INCLUDING FIELD SURVEYS, SAMPLING METHODS AND ANALYSIS USED**
  - The focal institutions of the Peruvian State (Proyecto Vicuña, CONACS, INRENA, CITES Authority, Sociedad Nacional de la Vicuña)
  - Reports from the regular meetings of the Vicuña Convention
  - Agreements of the CITES Convention and IUCN data
- 4. QUANTITATIVE AND QUALITATIVE ASSESSMENT OF THE INFORMATION USED IN THE EVALUATION**  
Direct processing and use of national and international statistics on the species
- 5. MAIN PROBLEMS, DIFFICULTIES AND CHALLENGES FOUND IN MAKING THE NDF**
  - Scattered and outdated data
  - Discontinuous information
  - Data lost or not directly accessible
  - Use of different names and concepts to refer to the same parameters
  - Incorrect use of some zootechnical or animal husbandry concepts and schemes in data or statistics on vicuñas.
- 6. RECOMMENDATIONS**
  - Manage the specific concepts, definitions, work schemes and policies that correspond to the vicuña as a WILD animal, eradicating the use of livestock farming synonyms.
  - Not include the vicuña in programs, institutions, projects, laws or policies that refer to the domestic species alpaca and/or llama or in the definitions or concepts that refer to South American camelids in general.