# XII INTER-AMERICAN MEETING, AT THE MINISTERIAL LEVEL, ON HEALTH AND AGRICULTURE

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REPORT ON THE VIII MEETING OF DIRECTORS
OF NATIONAL RABIES CONTROL PROGRAMS
IN LATIN AMERICA (REDIPRA)

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#### 1. Background

One of the priorities of the Program on Veterinary Public Health of the Pan American Health Organization (PAHO) is to provide technical cooperation to the countries for the elimination of human rabies transmitted by dogs. Initially, the countries made a commitment to eliminate urban rabies from the principal cities of the Region at the III Inter-American Meeting, at the Ministerial Level, on Animal Health (RIMSA). This commitment was ratified at the XXXI Meeting of the Directing Council of PAHO held in 1983. That same year the I Meeting of Directors of National Programs for Prevention and Control of Rabies (REDIPRA) was convened in Guayaquil, Ecuador. At this meeting strategies were approved and an "action plan for the elimination of urban rabies from the principal cities of Latin America by the end of the 1980s" was defined.

Implementation of this "action plan" was evaluated in II and III REDIPRA, held in Brasilia, Brazil, in 1988, and in Porto Alegre, Brazil, in 1989, respectively. At IV REDIPRA, held in Mexico City in October 1992, the countries were informed about the expansion of the plan to eliminate human rabies transmitted by dogs to small settlements and rural areas, and the timetable for reaching the goal of elimination was extended to the year 2000. Also emphasized was the need to improve epidemiological surveillance of sylvatic rabies, in particular rabies transmitted by vampire bats.

In V REDIPRA, held in Santo Domingo, Dominican Republic, in 1995, it was recommended that the countries develop strategies for prevention and control of rabies in border areas at risk, establish regional commissions for the elimination of rabies, and prepare a guide for the development and evaluation of educational programs about rabies, among other recommendations.

Two years later, in April 1997, VI REDIPRA was held in Quito, Ecuador. The meeting sought to analyze the achievements of the program to eliminate rabies transmitted by dogs and to adjust the action plan for consolidation of the final attack phase. In addition, there was discussion of strategies for reference diagnosis and for assuring the quality of rabies biologicals.

VII REDIPRA, held in Puerto Vallarta, Mexico, in October 1998, analyzed the progress of the strategic plan for the elimination of human rabies transmitted by dogs, and analyzed and adjusted activities for plan's consolidation phase projected for the biennium 2000–2001. Strategies and activities for the protection and maintenance of rabies-free areas were defined, as well as for surveillance, prevention, and control of sylvatic rabies.

As convened by the Director of PAHO, Dr. George Alleyne, VIII REDIPRA was held in the city of Lima, Peru, from 16 to 18 October, 2000.

### 2. Objectives

The objectives of VIII REDIPRA were to:

- Analyze the progress of the regional strategic plan for the elimination of human rabies transmitted by dogs in Latin America;
- Analyze the current situation (advances and limitations) of the different components of the regional plan of action; and
- Define technical cooperation strategies and activities for formulation of the operational plan for the biennium 2002–2003.

#### 3. Participants

Seventy-nine professionals from various countries and institutions participated in the meeting. They included 15 staff members and technicians from PAHO; 40 observers; the national directors of the programs for control and elimination of rabies in 20 countries of Latin America (Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, the Dominican Republic, Ecuador, El Salvador, Guatemala, Haiti, Honduras, Mexico, Nicaragua, Panama, Paraguay, Peru, Uruguay, and Venezuela); and representatives of WHO Collaborating Centers (Centers for Disease Control and Prevention of the United States, Institute Pasteur of Paris, France, and Animal Diseases Research Institute of Ontario, Canada).

#### 4. Opening Ceremony and Election of Officers

The Minister of Public Health of Peru, Dr. Alejandro Aquinaga Recuenco, presided over the opening ceremony. He was accompanied by Dr. Ana María Navarro Vela, Director of the Zoonosis Program of the Ministry of Health of Peru, Dr. Primo Arámbulo III, Coordinator of PAHO's Program on Veterinary Public Health, Dr. Marie Andreé Diouf, PAHO/WHO Representative in Peru, and Dr. Hugo Tamayo, representing Dr. Eduardo Correa Melo, Director of the Pan American Foot-and-Mouth Disease Center (PANAFTOSA).

The officers elected Dr. Ana María Navarro Vela, of the Ministry of Health of Peru, President, Dr. Mirna Moreno de Lobo, of the Ministry of Health of Honduras, Vice President, and Dr. Carlos Pavletic, of the Ministry of Health of Chile, as chief rapporteur.

### 5. Methodology and Program of Activities

The meeting was divided into three parts:

- 1. The information session. This was conducted by PAHO staff members and technical experts and by the representatives of the WHO Collaborating Centers. The PAHO representatives made presentations on compliance with the resolutions of VII REDIPRA, analysis of the progress of the Regional Program for the Elimination of Rabies, the situation of the Regional Information System for Epidemiological Surveillance of Rabies, the report on the Regional System of Reference Laboratories for Rabies Diagnosis, and quality control and availability of rabies vaccines in Latin America. The representatives of the WHO Collaborating Centers spoke on surveillance of rabies in wild animals and on vaccines and vaccination against rabies.
- 2. The rabies situation in the countries of Latin America. The reports were presented by the official delegates of the countries. Each country reported on the progress of the program for the elimination of rabies transmitted by dogs during the period 1995-1999, and on the achievements and limitations of the national programs.
- 3. Working groups. Here, participants discussed and analyzed strategies for continuing implementation of the plan to eliminate rabies transmitted by dogs. Those countries that have already eliminated canine rabies analyzed strategies for remaining free of the disease. The delegates also set forth their needs for technical cooperation, among countries and through PAHO, for the biennium 2002–2003, as well as strategies for its application. The working groups also produced a list of general recommendations at the close of the event.

#### 6. General Recommendations

- 1. Promote subregional meetings in the second half of 2001 on epidemiological surveillance of rabies, following an agenda previously agreed upon between the countries and PAHO, focused on information systems, diagnostic reference, risk analysis, and canine vaccination with community participation.
- 2. Request PAHO to coordinate the harmonization and exchange of standards and guidelines for prevention and control of rabies and other zoonoses of interest to the countries of the subregion.
- 3. Carry out joint activities, involving PAHO and countries requesting them, to evaluate the national rabies programs based on the epidemiological situation and risk factors that favor persistence of the problem. To this end a guide should be prepared and submitted for consideration by the countries.

- 4. Recommend to the ministers of health of the countries that steps be taken to add immunoglobulin and human rabies vaccine to the list of biologicals of the Expanded Program on Immunization (EPI), so that they can be purchased through the Revolving Fund; this will make it possible to procure high-quality products at a lower price.
- 5. Request PAHO to carry out a review of the quality and availability of rabies vaccines, as well as revision and standardization of treatment regimens using suckling-mouse brain (SMB) vaccines.
- 6. Ensure PAHO collaboration with the countries in the implementation of a quality control program for laboratory diagnosis of rabies.
- 7. Have PAHO identify the laboratories in the Region that can collaborate with the countries in the characterization of the strains of rabies virus circulating in the Region and in the transfer of technologies, and ensure the Organization's support for these activities.
- 8. Strengthen cooperation among countries and intersectoral collaboration and encourage surveillance activities on the borders, providing continuity for the technical cooperation among countries under way and promoting new efforts, based on the results observed in subregional meetings.
- 9. Request PAHO to send a communication to the highest political decision-making levels of the countries, asking them to provide the necessary resources to sustain the rabies programs and meet the goals that have been set, in order to maintain the progress achieved by the Regional Program for the Elimination of Urban Rabies.
- 10. Identify strategies and methodologies for rabies control and characterization in wild species.
- 11. Encourage the search for mechanisms and instruments that can enhance community participation.

#### 7. Summary of the Situation of the Rabies Programs

The information on the rabies situation forwarded to the Pan American Foot-and-Mouth Disease Center of PAHO/WHO by the rabies control programs of the countries of the Hemisphere for the VIII REPIDRA can be found in the tables annexed to this document. These tables reflect the situation of the national programs, chiefly in the following areas:

# 7.1 Epidemiological Situation and Trends in Human and Animal Rabies During the Period 1995-1999

During the period 1995-1999, human and animal rabies cases in Latin America fell considerably (Table 1). Human cases decreased by 51.3% and canine cases, by 44.1%. A slightly sharper reduction can be observed in the rates of human and canine rabies per 100,000 individuals, which decreased by 53.1% and 50.6%, respectively.

#### Rabies in Humans

In the subregions, the greatest percentage reduction in the number of cases occurred in Central America, which experienced an 82.4% decline. Mexico ranked second, with 71%, followed by the Andean Area, with 54%; the Latin Caribbean, with 25%; and Brazil with 19.4%. In the Southern Cone, Argentina, Chile, and Uruguay did not have human cases of dog-transmitted rabies. In Paraguay the number of cases rose steadily until 1998, falling in 1999 to their 1995 levels (Table 1). The rabies rates per 100,000 persons exhibited the same trend. Central America experienced the greatest reduction, 83.3%. It was followed by Mexico, with 73.5%; the Andean Area, with 57.4%; the Latin Caribbean, with 26.7%; and Brazil, with 25%. In the Southern Cone, the rabies rate in 1999 was similar to its 1995 levels.

#### Rabies in Dogs

The subregions responsible for the decline in the number of cases in Latin America were Mexico, the Andean Area, and Central America, with reductions of 74.9%, 70.4% and 55.4%, respectively (Table 1). In the Latin Caribbean and Brazil, in contrast, the number of cases grew by 123.3% and 51.3%, respectively. In the Southern Cone there was no variation in the number of cases, with Paraguay representing the largest source of cases.

The same trend can be observed in the rates per 100,000 dogs. Reductions were observed in Mexico (77.1%), the Andean Area (73.2%), Central America (64.6%), and the Southern Cone (16.2%). In contrast, the Latin Caribbean and Brazil showed increases of 58.3% and 43.9%, respectively.

#### Rabies in Cattle

The number of bovine rabies cases in Latin America grew by 10.6%. The only subregion that experienced a marked reduction (93%) was Mexico. Central America and the Andean Area, in contrast, had increases of 273.2% and 68.7%, respectively. In Brazil, the Southern Cone, and the Latin Caribbean, case numbers held steady during the period (Table 1).

#### Rabies in Bats and Other Wild Species

Reported cases of rabies in bats grew by 31.9% during the period (Table 1). Significant increases in case numbers can be observed in the Latin Caribbean (800%), the Southern Cone (147%), and Central America (100%). These increases probably reflect an improvement in epidemiological surveillance in some countries, rather than a real increase in the number of cases. Significant changes have not been observed in reported cases in other wild species during the five-year period.

#### Rabies in Major Cities

Human cases fell by 51.5% in Latin America's major cities. The sharpest decline was 80% and occurred in Central America, followed by Mexico, with 68.2%, and the Andean Area, with 51.9%. In the Southern Cone, only cities in Paraguay experienced cases. Brazil and the Latin Caribbean showed no significant changes. Canine cases in the major cities of the Region fell by 61.3%. Mexico led the subregions with a 73.8% reduction in its major urban areas, followed by the Andean Area, with 72.6%. The Latin Caribbean and Central America exhibited increases of 90.5% and 14.4%, respectively. Brazil did not report on the canine rabies situation in its major cities.

## 7.2 Post-exposure Rabies Prophylaxis and Availability of Biologicals for Human Use

The number of people exposed in the Region grew steadily during the five-year period, for a total increase of 17.5% (Table 2). Similarly, the number of people who received complete post-exposure rabies prophylaxis (PEP) increased by 6.3%. The rates of human exposure per 100,000 persons increased by 10.1%. However, the rate of people treated held steady, probably because the proportion of exposed individuals who received PEP decreased by 9.5%.

Each and every subregion recorded an increase in the number of people exposed. The proportion of people who received complete PEP grew by 99%, 42.6%, and 23.9%, respectively, in Central America, the Southern Cone, and the Latin Caribbean. In the

Andean Area, Mexico, and Brazil, in contrast, this proportion fell by 55.5%, 13.3%, and 7.7%, respectively.

Exposure rates increased in Central America, the Andean Area, Mexico, and Brazil by 31.2%, 25.9%, 9.5%, and 8.4%, respectively, falling by 3.4% in the Southern Cone and 0.6% in the Latin Caribbean.

PEP rates increased in the majority of the subregions, with the exception of the Andean Area and Mexico, where they decreased by 43.9% and 5.2%, respectively. Central America led the subregions with a 161% increase, followed by the Andean Area, the Southern Cone, the Latin Caribbean, and Brazil, with increases of 56.1%, 37.8%, 12.3% and 1.5%, respectively.

The overall availability of locally produced and imported rabies vaccines for human use rose by 3.3% during the biennium, from 4,545,554 doses to 4,696,796 (Table 3). The average availability of rabies vaccine in the Region was 4,621,175 doses per year. Of these, 96.9% were brain tissue vaccines (Fuenzalida-type). Only a small proportion of the countries reported having hyperimmune rabies serum (Table 4). Only 33.387ML of homologous serum was available in the Region per year on average. The availability of heterologous serum was 12.075ML per year on average. Latin America produces no hyperimmune, homologous, or heterologous serum.

# 7.3 Vaccine Availability, Vaccination Coverage, and Measures to Control Canine Rabies

During the 1998-1999 biennium, the availability of rabies vaccines for dogs and cats in Latin America grew by 10.7%. In addition, the total doses of canine and feline vaccine administered rose by 3.1%. Vaccination of small animals increased in the Southern Cone, Mexico, and Brazil by 57.6%, 6.2%, and 4.7%, respectively during the biennium. The remaining subregions recorded a reduction in the number of doses administered (Table 5).

Canine vaccination coverage in Latin America was 70% in both years. Among the subregions, coverage grew by 36.7% in the Southern Cone, 11.7% in the Latin Caribbean, 5.3% in Mexico, and 2.2% in Brazil. It declined, in contrast, by 16.3% in the Andean Area and 6.8% in Central America (Table 6).

#### 7.4 Diagnostic Laboratories and Quality Control of Rabies Vaccine

With the exception of Belize and Uruguay, all the countries of the Region indicated that they had laboratories for rabies diagnosis. The countries reported 94 laboratories capable of performing diagnostic tests using the direct technique of immunofluorescence. They also reported that 40 laboratories perform diagnostic confirmation tests through isolation of the virus in mice and 7 that utilize isolation in cell culture. The percentage of positive samples compared with the total of samples sent to the laboratory was quite variable (Table 7).

In addition, the countries indicated that 18 laboratories have the capacity to perform titration tests for rabies antibodies in mice and that 8 can conduct these tests in cell culture. Ten laboratories have the capacity to perform antigenic characterization of the rabies virus and 9 can perform the characterization using genetic methods. In addition, 19 laboratories have the capacity to test the potency of rabies vaccines.

#### 7.5 Training Needs

The countries indicated the need to train 3,607 individuals in program management, the planning of vaccination campaigns, mass communication, laboratory diagnosis, vaccine production, and quality control of vaccines.

The majority of the countries (54.2%) noted the need for training in the planning of vaccination campaigns. Program management ranked second, accounting for 22.5% of the training needs, followed by mass communication (17.1%), laboratory diagnosis (4.5%), quality control of vaccines (1.2%), and vaccine production (0.4%).

Annex

### **ANNEX**

Tables 1 to 7 attached are only available in Spanish

Table 1. Rabies Cases in Humans, Canines and Other Selected Animal Species, by Subregion and Country Latin America, 1995-1999

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# Fuente:

<sup>-</sup> Boletín de Vigilancia Epidemiologica de la Rabia en las Américas, XXVII - XXX, 1995 - 1998 - Boletín de Vigilancia Epidemiologica de la Rabia en las Américas, XXXI, 1999 (en prensa).

Table 2. Number of Exposed Persons and persons Receiving Post-Exposure Anti-rabies Treatment (PAPE), by Subregion and Country. Latin American, 1995-1999

		Person	Personas Expuestas	fas			Númer	Número y Proporción de Personas que Recibieron PAPE Completa	ción de 1		ne Recil	ieron PA	PE Com	pleta	
Subregión / País	\$661	1996	1997	1998	6661	1995	· (%)	1996	. (%)	1997	(%)	1998	<b>%</b>	6661	(%)
AMERICA LATINA	794,356	878,424	883,870	884,705	933,260	292,233	36.8	317,049	36.1	316,153	35.8	297,439	33.6	310,734	33.3
Área Andina	138,736	174,576	150,335	163,075	189,221	35,561	25.6	37,571	21.5	25,103	16.7	21,745	13.3	21.585	11.4
Bolivia	4,364	6,070	8,282	7,989	9,147	1,419	32.5	2,003	33.0	2,623	31.7	2,712	33.9	3.526	38.5
Cotombia	18,887	17,310	15,435	20,206	26,895	2,880	15.2	1,836	9.01	1,568	10.2	1,468	7.3	1.236	46
Ecuador	21,245	38,819	16,058	14,303	12,554	15,199	71.5	18,268	47.1	8,475	52.8	5,782	40.4	5.053	403
Perú	56,631	69,256	75,520	75,711	86,684	10,352	18.3	10,156	14.7	8,205	10.9	7,167	9.5	6.588	7.6
Venezuela	37,609	43,121	35,040	44,866	53,941	5,711	15.2	5,308	12.3	4,232	12.1	4,616	10.3	5,182	9.6
Cong Sur	121,632	114,679	126,930	131,071	124,839	27,989	23.0	27,793	24.2	27.523	21.7	38.440	29.3	40 966	33.8
Argentina	28,160	60,290	62,900	68,173	58,550	7,139	12.3	7.717	12.8	9,614	15.3	16.867	24.7	15 957	37.1
Chite	30,546	38,820	40,492	38,272	45,048	12,033	39.4	14,720	37.9	14,677	36.2	18.240	47.7	70 014	46.4
Paraguay	31,853	14,509	22,315	23,500	20,129	8,775	27.5	5,327	36.7	3,191	14.3	3,300	14.0	4.158	20.7
Uringuny	1,073	1,060	1,203	1,126	1,112	42	3.9	29	2.7	4	3.4	33	2.9	37	3.3
Brasil	362,814	392,586	404,383	394,941	413,874	203,937	56.2	229,754	58.5	240,678	59.5	210,003	53.2	214,869	51.9
América Central	37,905	52,403	57,035	53,393	55,220	3,893	10.3	1,878	3.6	2,206	3.9	7,085	13.3	11.305	20.5
Belice	351	360	164	134	105	72	20.5	86	27.2	. 55	33.5	42	31.3	3.4	32.4
Costa Rica	1,421	1,350	1,367	1,290	1,275	35	2.5	=	8.0	24	<u>∞</u> .	9	0.8	4	0.3
El Salvador	22,084	29,915	30,584	24,497	24,878	0	0.0	C	0.0	0	0.0	5,836	23.8	4,848	19.5
Guatemala	c	5,012	8,795	11,940	13,290	C	0.0	0	0.0	815	9.3	0	0.0	5,000	37.6
Honduras	3,706	4,224	3,685	3,913	3,450	396	10.7	333	7.9	247	6.7	195	5.0	343	9.6
Nicaragua	10,251	11,479	12,351	11,524	11,489	3,305	32.2	1,374	12.0	979	7.9	922	8.0	984	9.8
Fanama	92	63	68	95	733	85	92.4	62	98.4	98	9.96	80	84.2	92	12.6
México	87,951	869'96	96,954	97,851	102,718	17,825	20.3	17,124	17.7	17,678	18.2	16,957	17.3	18,077	17.6
Caribe Latino	45,318	47,482	48,233	44,374	47,388	3,028	6.7	2,929	6.2	2,965	6.1	3,209	7.2	3,932	8.3
Cubn	29,819	32,302	31,039	30,525	31,760	1,161	3.9	610,1	3.2	. 1,172	3.8	1,230	4.0	1.244	3.0
Haití	991	138	44	264	891	164	8.86	131	94.9	141	97.9	259	98.1	165	98.2
República Dominicana	15,333	15,042	17,050	13,585	15,460	1,703	=	1,779	8.1	1,652	9.7	1,720	12.7	2,523	16.3
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Fuente: Informes de los países a la VIII REDIPRA, 2000.

Table 3. Available Anti-rabies Vaccines and Applied for Human Use by Origen and Type of Vaccine, Subregion and Country. Latin America, 1998–1999

Tipo Fuermalidia   Tipo Cultivo Celular   Tipo Celular		:				Dosis Disponibles	onibles							
Part			Ē	no Fuenzalio	<u>.</u>			Tipo (	Jultivo Celula	. H		Dock	Application	
1998   1999   1998   1999   Total   1998   1999   Total   1999   Total   1999   Total   1999   Total   1999   Total   1999   1		Import	ada	Producció	n Local		Import	ada	Producción	Local			s Apriicauas	
149,340   219,810   4,127,581   4,120,484   8,957,185   146,492   0   0   0   0   0   0   0   0   0	Subregión / País	1998	1999	*	1999	Total	1998	1999	1998	1999	Total	1998	1999	Total
100,000   100,000   100,000   120,	AMERICA LATINA	149,300	229,820		4,320,484	8,957,185	138,673	146,492	0	0	285,165	2,739,819	3,267,724	6.007.543
100,000   100,000   25,626   82,900   0   0   0   0   0   0   0   0   0	Area Andina	•	0		564,090	1,114,440	905	200	0	0	1 405	106 714	160 704	676 430
17,000   17,000   21,920   68,920   0   0   0   0   0   0   0   0   0	Bolivia	0	0	37,250	45,650	82,900	С	-		0 0		130,000	40.4.04	0.00,438
100,000   10,000   226,100   226,200   27,000   0   0   0   0   0   0   0   0   0	Colombia	0	3	17,000	51 920	068 950	c	<del>,                                    </del>	• •	5 6	0 0	107,00	42,838	660'9/
100,000   100,000   226,520   240,000   120,	Ecuador			000 051	120,000	000,070		: 5	0	0	<b>3</b> 78	9/7/01	8,652	18,928
1,00,000	Perii	•	>	000,000	200,021	270,000	0 0	- °C	0	0	5	120,000	110,000	230,000
100,000   100,000   436,530   433,440   1,070,170   848   892   0   1,740   16,810   244,417   100,000   120,000	Venezuele	:	100	001,022	075,077	452,620	905	200	:	1	1,405	99,404	101,847	201,251
100,000   100,000   436,530   433,64d   1,070,170   848   892   0   1,74d   116,810   244,417     100,000   100,000   120,000   120,000   120,000   240,000   436,525   433,64d   437,76d   433,77d   434,77d   434,77	venezuela	:	*	120,000	120,000	240,000	፥	•	:	1	0	43,793	106,367	150,160
100,000   100,000   120,	Cono Sur	100,000	000'00	436,530	433,640	070,170	848	892	0	0	1 740	116.810	244 417	261 335
100,000   100,000   316,530   313,640   630,170   0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Argentina	c _	0	120,000	120,000	240,000	0	<del>-</del> 5	0	0		100 287	95.883	106 170
100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   100,000   1,166,070   1,166,	Chile	0	0	316,530	313,640	630,170	0		c	0		162,001	148.210	154 460
29,300         99,820         47,350         5,450,525         5,220         7,000         0         11,600         27,38,425         2,389,338         4,222         2,223         7,000         0         12,220         2,106,154         2,389,338         4,222         2,220         7,000         0         0         12,220         2,106,154         2,389,338         4,223         2,220         7,000         0         0         12,220         2,106,154         2,389,338         4,222         2,220         7,000         0         0         12,220         2,106,154         2,389,338         4,222         2,220         7,000         0         0         12,220         2,106,154         2,389,338         4,14,164         2,220         2,000         0         0         0         0         0         2,22	Paraguay	100,000	000'00		:	200,000	48	92	;		140	78	017,941	104,401
29,300         99,820         473,750         5,450,525         5,220         7,000         0         12,220         2,106,154         2,389,338         4,230           1,300         99,820         473,750         563,200         1,166,070         700         100         0         0         800         59,698         114,164           1,300         0         0         0         0         0         0         0         336         272           0         0         0         0         0         0         0         0         336         272           N.D.         59,320          0         0         0         0         0         33,315         33,815           N.D.         59,320          220,000         900,000         900,000         900,000         900,000         900,000         900,000         900,310         0         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,575         2,933         1,134,422         2,523	Uruguay	:	1	;	:	0	800	80	: :		1 600	37. 200	29	151
29,300         99,820         473,750         563,200         1,166,070         700         100         0         800         59,698         114,164           1,300         0         0         0         0         0         0         336         272           0         0         0         0         0         0         0         39,319         33,815           N.D.         59,320          59,320          59,320          0         0         0         0         39,319         33,815           28,000         20,000         70,000         500,000         900,000          0	Brasil	•	0	2,738,425	2,712,100	5,450,525	5.220	7.000	c	c	12 230	7 106 154	1 100 110	0, 20, 1
1,300	Amhalan Cantan	טטר טר	000						•		077'71	4,1001,24	4,307,336	4,493,49,
1,300   0	Delice	00000	078'66		263,200	,166,070	100	2	0	0	800	869'68	114,164	173,862
N.D.   59,320	Delice	006,1	0	<b>&gt;</b>	5	1,300	c	<del>5</del>	0	0	2	336	272	809
N.D.   59,320       59,320	Costa Rica	o ·	0		=	0	200	100	0	0	300	50	20	7(
N.D.   59,320	El Salvador	0	20,000		63,200	156,950	0	=	0	c	0	39,319	33,815	73.132
28,000         20,000         500,000         500,000         500         17,070         17,893           28,000         20,000         0         0         0         0         0         0         2,664           20,000         30,000         58,526         47,454         155,980         0         0         0         0         269,000         126,871         124,422           20,000         30,000         58,526         47,454         155,980         0         0         0         0         269,000         126,871         124,422           20,000         30,000         58,526         47,454         105,980         0         0         0         0         23,552         25,679           minicana         20,000         30,000         0         50,000         0         0         0         0         11,131         2,523	Cuatemala	Ö.	29,320		:	59,320	:	-:	:		=	0	59,320	59 32
28,000         20,000         0         0         500         0         0         500         17,070         17,893           0         500         0         0         0         0         0         348         180           20,000         30,000         58,526         47,454         155,980         0         0         0         0         269,000         126,871         124,422           0         0         0         0         0         0         0         23,552         25,679           0         0         0         0         0         0         0         0         21,925         22,393           ninicana         20,000         30,000         0         50,000         0         0         0         0         1,131         2,523	Honduras	0	0		500,000	000,000	፥	;	i		0	2.575	2,664	573
0         500         0         500         348         180           20,000         30,000         58,526         47,454         155,980         0         0         0         269,000         126,871         124,422           20,000         30,000         58,526         47,454         105,980         0         0         0         0         23,552         25,679           minicana         20,000         30,000         0         0         0         0         0         21,925         22,393           minicana         20,000         30,000         0         50,000         0         0         0         0         1,131         2,523	Nicaragua	28,000	20,000		0	48,000	200	=	0	0	200	17,070	17.893	34.96
20,000         30,000         58,526         47,454         155,980         0         0         0         269,000         126,871         124,422           20,000         30,000         58,526         47,454         105,980         0         0         0         0         23,552         25,679           ninicana         20,000         30,000         0         0         0         0         0         763	Panamá	°	200		0	200	፧	•	:		=	348	180	52
20,000         30,000         58,526         47,454         155,980         0         0         0         23,552         25,679           0         0         0         0         0         0         0         21,925         22,393           ninicana         20,000         30,000         0         0         0         0         0         763           20,000         30,000         0         0         0         0         0         1,131         2,523	México	0	0	0	9	0	131,000	138,000	0	o	269 000	126.871	124 422	751 70
0         0         58,526         47,454         105,980         0         0         0         0         23,552         25,679           ninicana         20,000         30,000         0         0         50,000         0         0         0         763           1,131         2,523	Caribe Latino	20,000	30.000		47.454	155 980	<		c	•				
Silica Dominicana 20,000 30,000 0 0 50,000 0 0 0 0 0 1,131 2,523	Cuba				47.454	080 501	•	<b>-</b>	•	> 0	5	766,62	6/9,67	49,23
20,000 30,000 0 0 50,000 0 0 0 0 0 0 0 0 1,131 2,523	Haiti	· ;				00000	>		>	5	= :	21,925	22,393	44,318
676.7	República Dominicana	20,000	10.000	•	: <del>•</del>	20 000	į	; =	; <		5 .	496	69,	1,25
					•		•	-	>	5	3	181,131	7,525	3,05

... Sin información.

N.D. No disponible.

Table 4. Available Hyperimmune Anti-rabies Serum and Applied by Origen, Type, by Subregion and Country Latin America, 1998–1999

				Canti	dad Dispor	Cantidad Disponible ( en ml.)	•						
		Suer	Sucro Heterólogo				:	Suero Homólogo			Cantid	Cantidad Aplicada	
	Importada		Producción L	ocal		Importada		Producción Local	Local		ت	( en ml.)	
Subregión / País	1998	1999	. 1998	1999	Total	1998	1999	8661	1999	Fotal	1998	1999	Total
AMERICA LATINA	14,690	9,460	0	0	24,150	28,579	38,195	0	5	66,774	109,899	223,323	333,222
Árca Andina	11,830	9,460	•	0	21,290	0	•	0	0	0	8.266	101.373	109 630
Bolivia	1500	2920	0	=	4,420	:	:	:	:	=	530	2.480	3.010
Colombia	:	:	፥	:	0	:	:	:	:	8	1,380	1.540	2,920
Ecuador	:		:	:	0	:	:	÷	:	0	0	90.000	00000
Perú	7330	3540	0	0	10,870	0	0	0	С	0	2,408	3,248	5.656
Venezucla	3000	3000	:	:	000'9	:	:	ŧ	<del></del> ;	0	3,948	4,105	8,053
Cono Sur	0	•	0	-	0	429	345	0	-	774	413	341	754
Argentina	÷	:	:	-:	0	100	100	0	<del>-</del>	200	84	96	081
Chile	0	0	0	=	0	С	0	0	<u> </u>	0	0	0	0
Paraguay	:	-:	:	-:	0	329	245	:	-:	574	329	245	574
Uruguay	0	C	0	0	=	0	0	0	0	0	0	0	0
Brasil	0	0	0	-	-	0	0	0	•	0	78,365	87,888	166,253
América Central	2,860	•	0	0	2,860	7,250	1,890	0	•	19,140	4.460	13.965	18.425
Befice	:	:	:	:	<del>-</del>	:		3	' :		2		
Costa Rica	:	:	i	:	0	:		:	:	0	· •		<u> </u>
El Salvador	860	i	0	:	860	7250	1890	0	0	19,140	2,610	3,820	6.430
Guatemala	: :	:	:	:	5	:	:	į	· :	0	1,600	9,750	11,350
Honduras	0	<del>-</del>	0	<del>o</del>	<del>-</del>	0	0	0	0	0	0	0	0
Nicaragua	2000	5	0	=	2,000	:		:		0	250	395	645
Panama	፥	:	:	:	<u> </u>	:	-	ŧ	:	0	0	0	0
México	•	•	0	-	-	19,000	24,000	0	•	43,000	16,495	17,696	34.191
Caribe Latino	0	0	•	-	-5	1,900	1.960	0		1 860	1 900	2 060	1 0/0
Cubn	:	i	:	:	C	1900	1960	0	<del>,                                    </del>	3,860	1.900	1.960	3,860
Haiti	፥	:	፧	•	0	:	:	:	:	0	0	00	100
República Dominicana	፥	:	፥	·:	0	:	•	:	-	0	0	0	0

... Sin información.

Fuente: Informes de los países a la VIII REDIPRA, 2000.

Table 5. Available Anti-rabies Vaccines and Applied for Canine Use by Origen and Type, by Subregion and Country. Latin America, 1998-1999

1,051,525 5,251,525 1,050,000 1,750,000 1,750,000 658,550 800,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,750,000 1,051,525 2,800,000 1,400,000 1,400,000	Imports 1998 15,877,520 1 2,634,000 0 1,134,000 0 1,500,000	Cultivo Celular 1999 1998 6,550,000 2,163,140 0,000 2,000,000 1,400,000 0 1,400,000 0 121,100 450,000 22,000 200,000 0 200,000 0 200,000 0 200,000 0 200,000 0 200,000 0 200,000 0 200,000 0	al 1999 5,170,086 4,693,736 0 2,500,000 2,500,000 230,000 20,000	5,170,086 39,760,746 4,693,736 11,320,836 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1998 1999 46,690,728 48,117,667 7,075,879 6,354,098 691,983 500,821 2,453,471 1,347,230 1,134,000 1,400,000 2,290,585 2,464,897	<b>3</b>	Tota 7,808,399 13,429,977 13,429,977 13,800,70 4,755,48 1,146,990 1,597,883 1,597,883
1998   1999   1998   1999   Total   1998   1998   1999   Total   1998   1998   1999   Total   1,600,000   2,000,000   29,179,905   30,328,464   63,108,369   0   1,979,100   1,438,064   3,417,164   0   1,085,000   607,000   1,692,000   0   1,085,000   607,000   1,692,000   0   1,133,210   1,275,340   6,585,550   0   0   0   0   0   0   0   0   0	Imports   1998   15,877,520   1,634,000   0   1,134,000   0   1,500,000   0   0   0   0   0   0   0   0	2,163, 2,143, 2,143, 2,000, 22, 22, 20,	2,500,000 2,500,000 1,963,736 230,000 20,000	Total 19,760,746 11,320,836 0 4,500,000 2,534,000 2,084,836 2,202,000 2,202,000	1998 46,690,728 4 7,075,879 691,983 2,453,471 1,134,000 2,290,585	J     .	Total 74,808,395 73,429,977 1,192,804 3,800,701 2,534,000 4,755,482 1,146,990 1,597,887 328,106
1998   1999   Total	15,877,520 1 2,634,000 0 1,134,000 0 1,500,000	2,163, 2,143, 2,000, 121, 22, 20,	5,170,086 4,693,736 0 2,500,000 0 1,963,736 230,000 20,000	Total 39,760,746 11,320,836 4,500,000 2,534,000 2,084,836 2,202,000 2,202,000	1998 46,690,728 7,075,879 691,983 2,453,471 1,134,000 2,290,585	1 1 .	Tota 14,808,399 13,429,977 1,192,800 3,800,701 2,534,000 4,755,482 1,146,990 1,597,887 328,100
1,600,000         2,179,905         30,328,464         63,108,369           0         0         1,979,100         1,438,064         3,417,164           0         0         1,085,000         607,000         1,692,000           0         0         1,085,000         607,000         1,692,000           0         0         564,100         431,064         995,164           0         0         850,000         300,000         630,000           0         0         850,000         900,000         1,750,000           0         0         283,210         375,340         658,550           300,000         500,000         1,121,425         1,330,100         5,251,525           0         0         0         0         0         0           1,300,000         1,500,000         1,121,425         1,330,100         5,251,525           1,300,000         1,500,000         700,000         1,400,000         1,400,000           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         1,40	15,877,520 1 2,634,000 0 1,134,000 1,500,000	2,0	5,170,086 4,693,736 2,500,000 1,963,736 230,000 20,000	39,760,746 11,320,836 0 4,500,000 2,534,000 2,084,836 2,202,000 2,40,000	46,690,728 7,075,879 691,983 2,453,471 1,134,000 2,290,585	1 .	94,808,395 13,429,977 1,192,804 3,800,701 2,534,000 4,755,482 1,146,990 2,671,836 1,597,887
0         0         1,979,100         1,438,064         3,417,164           0         0         1,085,000         607,000         1,092,000           0         0         1,085,000         607,000         1,00,000           0         0         564,100         431,064         995,164           0         0         1,133,210         1,275,340         3,208,550           0         0         0         283,210         375,340         3,208,550           300,000         500,000         1,121,425         1,33,340         1,750,000           0         0         24,103,850         25,559,260         49,663,110           1,300,000         1,500,000         1,121,425         1,330,100         5,251,525           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0         0           0         0         0         0         0	2,634,000 0 0 1,134,000 0 1,500,000	2,1	4,693,736 2,500,000 2,500,000 230,000 20,000	29,760,740 11,320,836 0 4,500,000 2,534,000 2,084,836 2,202,000 2,40,000	40,690,728 4 7,075,879 691,983 2,453,471 1,134,000 2,290,585		24,808,395 13,429,977 1,13,22,804 3,800,701 2,534,600 4,755,482 1,146,990 1,597,887 1,597,887
1,979,100	2,634,000 0 0 1,134,000 1,500,000 0 0	2,0	4,693,736 2,500,000 1,963,736 230,000 20,000	11,320,836 0 4,500,000 2,534,000 2,084,836 2,202,000 240,000	7,075,879 691,983 2,453,471 1,134,000 2,290,585	6,354,098 500,821 1,347,230 1,400,000 2,464,897 641,150 1,634,480	13,429,977 1,192,804 3,800,701 2,534,000 4,755,482 1,146,990 1,597,887 328,106
	0 0 1,134,000 0 1,500,000 0	2,0	2,500,000 1,963,736 230,000 20,000	2,534,000 2,534,000 2,084,836 2,202,000 240,000	691,983 2,453,471 1,134,000 2,290,585	5.00,821 1,347,230 1,400,000 2,464,897 641,150 1,634,480	3,800,701 2,534,000 4,755,482 1,146,990 2,671,836 1,597,887
100,000	1,134,000 0 0 1,500,000 0 0	2,0	2,500,000 0 1,963,736 230,000 20,000	4,500,000 2,534,000 2,084,836 2,202,000 240,000	2,453,471 1,134,000 2,290,585	1,347,230 1,400,000 2,464,897 641,150	3,800,701 2,534,000 4,755,482 1,146,990 1,597,887 328,106
	1,134,000 0 1,500,000 0 0		1,963,736 230,000 20,000	2,534,000 2,084,836 2,202,000 240,000	2,433,471 1,134,000 2,290,585	1,347,230 1,400,000 2,464,897 641,150 1,634,480	3,800,701 2,534,000 4,755,482 1,146,990 1,597,887 1,597,887
300,000 500,000 1,133,210 1,275,340 3,208,550 0 850,000 1,750,000 0 283,210 375,340 658,550 0 0 283,210 375,340 658,550 0 0 283,210 375,340 658,550 0 0 0 24,103,850 25,559,260 49,663,110 0 0 0 0 24,103,850 25,559,260 49,663,110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000,002,1		1,963,736 230,000 20,000	2,084,836 2,202,000 240,000	2,290,585	2,464,897 641,150 1,634,480	2,534,000 4,755,482 1,146,990 <b>2,671,836</b> 1,597,887 328,106
300,000 500,000 1,133,210 1,275,340 3,208,550 0 850,000 1,750,000 0 283,210 375,340 658,550 0 0 283,210 375,340 658,550 0 0 24,103,850 25,559,260 49,663,110 0 0 0 24,103,850 25,559,260 49,663,110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000,002,1		230,000 230,000 20,000	2,084,830 2,202,000 240,000	2,290,585	2,464,897 641,150 1,634,480	4,755,482 1,146,990 <b>2,671,836</b> 1,597,887 328,106
300,000 500,000 1,133,210 1,275,340 3,208,550 0 0 850,000 900,000 1,750,000 0 283,210 375,340 658,550 0 0 24,103,850 25,559,260 49,663,110 0 0 0 0 24,103,850 25,559,260 49,663,110 0 0 0 0 0 0 421,425 1,330,100 5,251,525 1,300,000 1,500,000 0 700,000 1,051,525 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • • • •		20,000	240,000	110 000	641,150 1,634,480	1,146,990 2,671,836 1,597,887 328,106
300,000 500,000 1,133,210 1,275,340 3,208,550 0 0 283,210 375,340 658,550 300,000 500,000 1,750,000 1,300,000 1,500,000 1,21,425 1,330,100 5,251,525 1,300,000 1,500,000 0 421,425 630,100 1,051,525 1,300,000 1,500,000 0 700,000 1,400,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	• • • :		20,000	240,000	505,840	1,634,480	<b>2,671,836</b> 1,597,887 328,106
300,000 500,000 1,750,000 1,750,000 0 283,210 375,340 658,550 0 0 24,103,850 25,559,260 49,663,110 0 0 0 24,103,850 25,559,260 49,663,110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	001;		001		1.037.356	0016.006	1,597,887 328,106
300,000 500,000 - 283,210 375,340 658,550 - 800,000 - 90,	<b>C</b> ' ;		<del>-</del> 6 · ·	0	754 665	641 777	328,106
300,000 500,000 - 800,000	' :		<del>: - 1</del>		011.64	777'540	328,100
1,300,000 1,500,000 1,121,425 1,330,106 5,251,525 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	:		•	Con truct	104,110	103,990	
1,300,000 1,500,000 1,121,425 1,330,100 5,251,525 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	:		00000	200,000	185,101	608,762	710,343
1,300,000 1,500,000 1,121,425 1,330,100 5,251,525 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		000,03	20,000	40,000	17,000	18,500	35,500
1,300,000 1,500,000 1,121,425 1,330,106 5,251,525 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	•	0	c		22 597 600 2	31 660 475	200 020 2
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	043 £30	000	,				670,862,04
1,300,000 1,500,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	042,540	0 000,000	5	1,343,520	2,136,432	1,968,111	4,104,543
1,300,000 1,500,000	000,02	0	<del>=</del>	20,000	8,610	10,160	18,770
1,300,000 1,500,000	000'01	_	0	10,000	11,035	4,092	15,127
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	200,000	200,000	<u> </u>	700,000	488,094	485,150	973,244
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		100	•	=	899,136	835,998	1.735,134
		0	0	ੋਂ •	424,430	381.018	805 448
0 0 0 0 0 0		300,000	c	598,520	305,127	249.921	555 048
0 0 0 0 0	15,000	-	•	15,000	0	1.772	1 777
000000000000000000000000000000000000000	12.400.000 14 000 000	0000		200,000,00			
		2000	5	20,400,000	12,644,213	13,434,215 2	26,078,428
00/52/ 07/548 0 0		40	456,350	456,390	1,199,248	1,066,338	2.265.586
Haiti 0 0 0 842,320 725,700 1,568,020	0	0	9	0	887,708	848,664	1,736,372
República Dominicana 0 0 0 0	¢	-			213,000	37,600	250,600
)	<b>-</b>	0 40	456,350	456,390	98,540	180,074	278,614

Fuente: Informes de los países a la VIII REDIPRA, 2000.

Table 6. Estimated Canine Population, Number and Coverage of Vaccinated Dogs, both Observed and Eliminated, by Subregion and Country. Latin America, 1998–1999

	Població	Población Canina					Número	y Propo	Número y Proporción de Perros	Perro	Š			
	Estin	Estimada		Observados	ados			Eliminados	sopı			Vacunados	sope	
Subregión / País	1998	1999	1998	%	1999	%	1998	%	1999	8	1998	%	1000	%
AMERICA LATINA	55,269,845	56,068,748	420,441	8.0	495,359	6.0	772,560	4.1	680,576	1.2			37,897,209	67.6
Área Andina	10,990,311	11,232,637	115,669	::	122,591	-	219,178	2.0	192,336	1.7	7,159,165 6	65.1	6,122,871	54.5
Bolivia	:	4.0	:	0.0	:	0.0	:	0.0	:	0.0	691,983	0.0	500,821	0.0
Colombia	4,082,682	4,158,902	13,037	0.3	14,619	0.4	13,939	0.3	24,634	9.0	2,453,471 6	60.1	1,347,230	32.4
Ecuador	1,739,233	1,806,585	8,206	0.5	995'9	0.4	43,306	2.5	30,608	1.7	_	62.2	1,168,838	64.7
Pcrú	2,480,076	2,523,223	62,846	2.5	68,707	2.7	81,949	3.3	53,017	2.1		97.8	2,464,897	7.76
Venezuela	2,688,320	2,743,927	31,580	1.2	32,699	1.2	79,984	3.0	84,077	3.1		8.8	641,085	23.4
Cono Sur	6,943,146	7,037,009	26,408	0.4	29,641	0.4	97,300	4.	85,783	1.2	1,020,356	14.7	1,416,080	20.1
Argentina	3,600,000	3,650,000	0	0.0	С	0.0	0	0.0	0	0.0		21.0	843,322	23.1
Chile	2,280,263	2,310,425	25,234	=	28,362	1.2	96,722	4.2	83,295	3.6		7.2	163,996	7.1
Paraguay	521,883	535,584	629	0.1	707	0.1	578	0.1	2,488	0.5	_	19.5	408,762	76.3
Uruguay	541,000	541,000	545	0.1	572		0	0.0	0	0.0		0.0	:	0.0
Brasil	16,179,031	16,394,755	•	0.0	0	0.0	126,799	8.0	92,156	9.0	13,764,925 8	85.1	14,262,772	87.0
América Central	4,405,669	4,487,565	12,315	0.3	12,738	0.3	7,639	0.2	3,347	0.	1,675,732 3	38.0	1.587.278	35.4
Belice	23,850	24,339	23	0.1	105	9.0	160	0.7	423	1.7	8,610 3	36.1	10,345	42.5
Costa Kica	502,512	514,158	198	0.0	145	0.0	99	0.0	63	0.0	11,135	2.2	4,092	0.8
El Salvador	1,001,071	866'610'1	0	0.0	0	0.0	0	0.0	0	0.0	488,080 4	48.8	485,150	47.6
Guatemala	1,606,194	1,635,854	0	0.0	0	0.0	286	0.0	272	0.0	899,136 5	96.0	835,998	51.1
Honduras	668,924	670,658	3,270	0.5	2,736	0.4	932	0.1	1,315	0.2	:	0.0		0.0
Nicaragua	603,118	622,558	8,823	1.5	9,750	9.1	6,195	0.1	1,274	0.2	268,771 4	44.6	249,921	40.1
Panama	:	÷	-	0.0	2	0.0	0	0.0	0	0.0	0	0.0	1,772	0.0
México	14,439,932	14,564,863	232,229	9.1	291,926	2.0	243,829	1.7	293,436	2.0	12,644,213 8	87.6	13,434,215	92.2
Caribe Latino	2,311,756	2,351,919	33,820	1.5	38,463	9.1	77,815	3.4	10,518	4.0		40.9	1 073 993	45.7
Cuba	1,112,231	1,114,269	27,815	2.5	28,807	2.6	75,315	8.9	10,174	0.0		79.8	848 664	76.7
Haití	382,374	390,161	011	0.0	911	0.0	912	0.2	159	0.0	'	0.0		1 0
República Dominicana	817,151	847,489	5,895	0.7	9,540	Ξ	1,588	0.2	185	0.0	57,225	7.0	225.329	26.6
													•	

... Sin información.

Fuente: Informes de los países a la VIII REDIPRA, 2000.

Table 7. Samples Sent to Laboratories, by Subregion and Country, Number and Percentage of Positives.

Latin America 1998–1999

		Núr	nero d	e Muestras		
	1998			1999		
Subregión / País	Enviadas al Laboratorio	Positivas	%	Enviadas al Laboratorio	Positivas	%
AMÉRICA LATINA	47.661	3,649	7.7	65,083	2,977	4.6
Área Andina	5,826	668	11.5	5,881	485	8.2
Bolivia		***			•••	
Colombia	804	183	22.8	369	115	31.2
Ecuador	400	189	47.3	420	129	30.7
Perti	3.894	203	5.2	4,052	139	3.4
Venezuela	728	93	12.8	1,040	102	9.8
Cono Sur	3,931	415	10.6	5,655	435	7.7
Argentina	12	4	33.3	34	19	55.9
Chile	2,800	9	0.3	4,446	38	0.9
Paraguay	1,077	402	37.3	1,158	378	32.6
Uruguay	42	0	0.0	17	0	0.0
Brasil	20,427	1,746	8.5	34,049	1,223	3.6
América Central	1,156	178	15.4	947	96	10.1
Belice	30	8	26.7	45	10	22.2
Costa Rica	15	0	0.0	16	0	0.0
Ei Salvador	405	150	37.0	270	69	25.6
Guatemaia	148	•••		141	•••	
Honduras	93	7	7.5	86	8	9.3
Nicaragua	464	13	2.8	387	9	2.3
Panama	1	, o	0.0	2	0	0.0
México	12,851	463	3.6	13,815	486	3.5
Caribe Latino	3,470	179	5.2	4.736	252	5.3
Cuba	3,270	116	3.5	4,532	170	3.8
Haití	25	22	88.0	19	16	84.2
República Dominicana	175	41	23.4	185	66	35.7

<sup>...</sup> Sin información.

Fuente: Informes de los países a la VIII REDIPRA. 2000.