

COMISIÓN SUDAMERICANA PARA LA LUCHA CONTRA LA FIEBRE AFTOSA

SOUTH AMERICAN COMMISSION FOR THE CONTROL
OF FOOT-AND-MOUTH DISEASE

XXV Regular Meeting

Campo Grande, Mato Grosso do Sul, Brasil
26-27 March 1998

FINAL REPORT

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**SOUTH-AMERICAN COMMISSION FOR THE CONTROL OF FOOT-AND-MOUTH DISEASE
XXV REGULAR MEETING**

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FINAL REPORT

The XXV Regular Meeting of the South-American Commission for the Control of Foot-and-Mouth Disease (COSALFA) was held on 26-27 March 1998, in the city of Campo Grande, Mato Grosso do Sul, Brazil, in response to the Secretary's call to convene. Dr. Vicente Astudillo, Director of the Pan American Foot-and-Mouth Disease Center (PANAFTOSA), was the acting Secretary ex officio.

Participants included delegates of the Official and Private Sectors of Argentina, Bolivia, Brazil, Colombia, Chile (without representatives of the private sector), Ecuador, Guyana, Paraguay, Peru (without representatives of the private sector), Uruguay and Venezuela. Also in attendance were observers from the Inter-American Institute for Cooperation in Agriculture (IICA), the International Office of Epizootics (OIE), Veterinary Services of Israel, United States Department of Agriculture (USDA/APHIS), professional trade entities, businesspersons and professionals related to the livestock industry, universities and the Pan American Health Organization/World Health Organization (PAHO/WHO). Furthermore livestock owners representative their association from Argentina, Brazil, Bolivia, Colombia, Uruguay and Venezuela also assisted.

The Governor of the State of Mato Grosso do Sul, Dr. Wilson Barbosa Martins, presided over the Opening Ceremony. He was joined by the following authorities and dignitaries: Senator Arlindo Porto, Minister of Agriculture and Supplies of Brazil; Dr. Ramez Tebet, Senator of the Republic of Brazil; Dr. Londres Machado, Representative of the State Chamber; Dr. André Puccinelli, Mayor of Campo Grande; Dr. Moisés Nery, President of the Commission of Agriculture of the State Chamber; Dr. José Armando Amado, President of the National Confederation of Agriculture; Dr. João Carlos Meirelles, President of the National Council of the Meat-producing Sector; Dr. Carlos Rivaci Sperotto, Vice President of the National Confederation of Agriculture; Dr. James Steele, Professor Emeritus of the University of Texas, and Dr. Vicente Astudillo, Director of PANAFTOSA.

The Mayor of Campo Grande opened the session by welcoming the participants to his city and expressing his desire that the Commission would have a very successful Meeting. Dr. James Steele then took the floor and, as President of the World Veterinary Epidemiological Association, awarded a Certificate of Membership in the Institution to Dr. Vicente Astudillo, for his valuable contribution to the development of Animal Health on the Continent.

After thanking Dr. Steele for the honor, and on behalf of the Plate River Basin Agreement, Dr. Astudillo took the opportunity to present an award of recognition to Dr. Ubiratan Mendes Serrão, in acknowledgement of his valuable services in the struggle to eradicate foot-and-mouth disease and other animal diseases

The Minister of Agriculture and Supplies of Brazil then took the floor to stress the positive impact that the fight against foot-and-mouth disease has had on Brazil's agriculture. He also emphasized that the creation of a free area with vaccination in the southern part of the country is the first concrete step toward eradication of the disease in Brazil. He expressed his satisfaction, concurrence and happiness for the honors accorded to the dedicated professionals and his hope that COSALFA would continue to attain its objectives.

Dr. Hernán Marín Gutiérrez, General Manager of the Colombian Agricultural and Livestock Institute (ICA) and Past President of the XXIV COSALFA, proceeded to pass the Chairmanship to Dr. Aluisio Berbert Sathler, Director of the Department of Animal Defense of the Ministry of Agriculture and Supplies of Brazil.

In his discussion of the Resolutions of the XXIV Regular Meeting, Dr. Vicente Astudillo reviewed the activities developed on the Continent in 1997.

1. REPORT OF THE SECRETARY

At the XXV Regular Meeting of COSALFA, we have the privilege of celebrating the Silver Anniversary of this Organization recognized at the ministerial level. And we have witnessed the advances attained, especially by Argentina, Brazil, Chile, Paraguay and Uruguay, with respect to eliminating foot-and-mouth disease from their territories or from parts of them. This Meeting has become the most important Animal Health event on the Continent: it has facilitated the coordination and strengthening of the fight against foot-and-mouth disease through the implementation and advancement of the strategies of the Hemispheric Plan for Eradication of Foot-and-Mouth Disease (PHEFA).

At the present moment, Chile, French Guiana, Guyana, the Argentine Patagonia, Suriname and Uruguay are acknowledged as free of foot-and-mouth disease without vaccination. The 65th General Session of the International Committee of the International Office of Epizootics (OIE) recognized the northwestern zone of the Department of Chocó in Colombia as free of foot-and-mouth disease, and also all the territory of Argentina and Paraguay was recognized by the OIE as free with vaccination. Brazil's states of Rio Grande do Sul and Santa Catarina submitted to the OIE their request for recognition as free with vaccination. Their motion, favorably received by the Specific Technical Commission, is scheduled to be presented to the OIE's International Committee at the next General Session in May, 1998.

During the year in review, no changes were noted in the health situation of the countries of Central America, North America and the Caribbean, all of which continue to be free of the disease.

The existence, maintenance and significant expansion of the foot-and-mouth disease-free area in South America is proof of the capability, efficiency and feasibility demonstrated by the joint action undertaken by the official veterinary services and private institutions related to the production sector and other social actors, linked to the meat industry, interested in the elimination of this disease.

The results obtained have had a great impact in South America and on the Pan American Foot-and-Mouth Disease Center (PANAFTOSA); one of the major consequences is the ensuing current belief in the desirability of co-management for the control and eradication of diseases.

2. ANALYSIS OF THE RESOLUTIONS OF COSALFA XXIV

The main activities conducted in the countries, in compliance with the Resolutions passed at COSALFA XXIV, are described below.

2.1 Subregional project for the control and eradication of foot-and-mouth disease in the River Plate Basin (PBP)

The countries participating in the PBP continued their efforts to strengthen the surveillance system oriented toward prevention and conducted other actions intended to consolidate the status achieved and obtain international recognition.

The procedures for active surveillance were strengthened by means of serological surveys to verify the absence of viral activity. The survey carried out by Argentina in the process of being recognized as free of foot-and-mouth disease covered 140,640 bovine cattle, while Paraguay drew samples from 18,828 bovines, complementarily utilizing the VIAA and EITB tests. According to the circumstances, other tests were also used, like: Probang, PCR and hybridization. Likewise for the purpose of recognition, the states of Rio Grande do Sul and Santa Catarina utilized the VIAA and EITB tests to check 8,515 bovine sera classified in two age groups —under and over two years of age— and in 1,861 sera drawn from sheep.

During 1997, Argentina continued monitoring the absence of foot-and-mouth disease virus activity, conducted serological studies utilizing the VIAA test and, complementarily, EITB, Probang, PCR and Hybridization, on 53,589 bovines and 11,265 animals of other susceptible but non-vaccinated species.

Thanks to its new animal-health status, Argentina has opened new export markets: Eastern Europe, the Balkan countries and Malta for processed and fresh beef; Bulgaria for beef, goat meat fresh mutton, and bovine offals; Czech Republic and Poland for fresh and

thermoprocessed beef and for raw and cooked offals; and Sweden for all animal-origin products allowed by the European Union.

Argentina has likewise signed preliminary agreements with China for the exportation of fresh deboned beef, meat meal, bone and blood, and has met sanitary requirements for the export of meats, hamburgers and other products and by-products to countries of the Mid East, Asia and Africa.

Argentina has decided for the time being to maintain massive foot-and-mouth disease vaccination of cattle and buffaloes, prohibiting it in other susceptible species and creating its own vaccine bank.

The National Service of Agriculture and Livestock Health and Quality (SENASA) set up an Inter-Institutional Technical Group for Risk Analysis which, with PANAFTOSA's support, will undertake a qualitative and quantitative assessment of the risk of reintroduction of the foot-and-mouth virus into the country. Part of the activities included a course on Differential Diagnosis of foot-and-mouth disease, held in Santa Fé, Argentina.

Bolivia has created a Ministry of Agriculture, Livestock and Rural Development. Within it, the Animal Health Unit will be subjected to the Livestock Division (Dirección de Ganadería). A Manager of the Foot-and-Mouth Disease Control and Eradication Program will be named. The national authorities and those from Bolivia's departaments reiterated their decision to comply with the commitments assumed to support the Subregional Program for the control and eradication of foot-and-mouth disease in the River Plate Basin (PBP).

The Livestock Producers Federation of Santa Cruz de la Sierra (FEGASACRUZ) and the Prefect of the departament of Santa Cruz signed an Agreement stating that the Prefecture commits to contracting 15 veterinarians and FEGASACRUZ agrees to implement animal-transit control stations.

With technical cooperation from the PBP the necessary adjustments will be implemented in the epidemiological surveillance system in the Bolivian zone incorporated into the Agreement, so that this information may be included in the PBP system. Likewise, Bolivia received two international consultants to provide technical cooperation in sanitary education and animal health legislation. Six departmental foot-and-mouth disease committees (CODEFA) and seven provincial foot-and-mouth disease committees (COPEFA) were implemented through the hiring of seven senior veterinarians with funds provided by the Financial Fund for the Development of the River Plate Basin (FONPLATA).

A course to train official and private personnel in outbreak control and differential diagnosis of foot-and-mouth disease was held in Santa Cruz de la Sierra, Bolivia.

In Rio Grande do Sul, Brazil, 61 veterinarians were contracted; Santa Catarina contracted 70 persons to staff 14 inspection stations scheduled to remain open 24 hours a day; and Paraná changed the dates of its vaccination cycles to May and November in order to have them coincide with the vaccination cycles in Rio Grande do Sul and Santa Catarina.

Chile remains free of foot-and-mouth disease. Its foot-and-mouth disease prevention program, which is inserted in the Project for epidemiological surveillance of exotic diseases, comprises two systems: (1) prevention focused on the risk of reintroduction of the disease, in turn subdivided into two subsystems (epidemiological surveillance and sanitary control); and (2) early detection of the entry of exotic agents, whose purpose is to provide timely awareness of the presence of an emergency disease and thus prevent the establishment of an exotic disease in the country.

The Agriculture and Livestock Service (SAG) of Chile has changed its prevention policies because of the new sanitary situation in Argentina: it eliminated the border strip which had been kept free of animals for the past ten years, and trained the animal health program personnel in risk analysis, control and management. SAG has likewise introduced greater flexibility into the use of the high mountain summer pastures but, on the other hand, has strengthened the epidemiological surveillance system focused on the camelidae populations along the borders with Bolivia and Peru. In 1997, SAG conducted a simulation of the eradication of a foot-and-mouth disease outbreak in Curicó, with 36 participants.

In Paraguay, no episodes of foot-and-mouth disease have been reported since September, 1994. During that period a general vaccination coverage of 89% has been achieved. The National Animal Health Service (SENACSA) implemented sanitary barriers with the control of animal transit and entry of animal-origin products at ports and airports, based on the computerization of the local SENACSA offices.

In addition to implementing active surveillance at packinghouses and slaughterhouses, with veterinary inspection of all cattle whose tongues and hooves are suspected of having disease sequelae, inspectors also conduct serological tracking based on the origin of the animals and continue conducting serological samplings. More than 24,000 sera were processed during the year.

SENACSA has incorporated the neurological syndromes into the epidemiological surveillance system, having responded to, and produced differential diagnosis of, 13 notifications of suspicion of foot-and-mouth disease.

The Inter-Institutional Commission has collected more than US\$ 4 million, which it has earmarked especially to strengthening the prevention program. The indemnization fund amounts to more than US\$ 9 million.

Uruguay has maintained sanitary checkpoints at the main points of entry into the country since 1994. The staff of 39 veterinarians, 17 agronomists and 108 semi-technical personnel is provided by the Ministry of Livestock, Agriculture and Fishing (MGAP). The National Animal-Health Emergency System (SINAESA) remains in full activity. During the year in review it investigated 12 suspicions of foot-and-mouth disease, all of which yielded negative results.

The following meetings were held in the subregion in 1997:

- (a) XVIII Regular Meeting of the PBP Committee. Buenos Aires, Argentina. February.
- (b) I Regular Meeting of the PBP Technical Group. Sta. Cruz de la Sierra, Bolivia. April.
- (c) II Regular Meeting of the PBP Technical Group. Florianópolis, Sta Catarina, Brazil. July.
- (d) V Special Meeting of the PBP Committee. Mato Grosso do Sul, Brazil. October.
- (e) III Regular Meeting of the PBP Technical Group. Punta del Este, Maldonado, Uruguay. November.
- (f) XIX Regular Meeting of the PBP Committee. Montevideo, Uruguay. December.

2.2 Andean subregional project for eradication of foot-and-mouth disease

In compliance with the resolution that encourages the countries to organize the institutional infra-structure of the veterinary attention systems and the functioning of the epidemiological surveillance systems in the framework of the PHEFA, the countries belonging to this Project carried out the following activities:

PANAFTOSA/PAHO continued supporting the development of the national plans of Bolivia and Peru. In this regard it participated in drafting up two proposals. With PANAFTOSA/PAHO cooperation, two documents were drafted: Project for eradication of foot-and-mouth disease, Bolivia, 1998-2002, with the operating plan of the immunization component, and the Master Plan for eradication of foot-and-mouth disease in the northern departments of Peru.

Bolivia trained 77 professional personnel at four epidemiology Workshops taking foot-and-mouth disease as the model, in the cities of Villamontes, Santa Cruz de la Sierra, Trinidad and Oruro.

During the VI Meeting of COHEFA, the Minister of Agriculture and Rural Development of Colombia called the Ministers of Agriculture and the National Program Heads to the Meeting of the Andean countries for the eradication of foot-and-mouth disease in the subregion. The meeting was held in June 1997, with the object of planning strategies to be followed by the Andean countries in complying with the goals that the PHEFA had approved for the subregion.

The Colombian Agriculture and Livestock Institute (ICA) has drafted a national emergency plan and issued a Guidebook for control and eradication of foot-and-mouth disease outbreaks in Colombia. The Guidebook draws information from the manuals produced by PANAFTOSA/PAHO and by the OIE. This document seeks to standardize the strate-

gies, procedures and activities for the control and eradication of outbreaks of foot-and-mouth disease. With suitable modifications it could be used for other pathologies. This program is to be financed as follows: 11% tax funding, 43% from the producers of FEGABENI, and 46% outside funds per title 1, PL-480.

In Ecuador, the National Commission for Eradication of Foot-and-Mouth Disease (CONEFA) was created, uniting efforts of the livestock-raising sector and the Ecuadorian Service of Agriculture and Livestock Health (SESA). It assumed the sanitary defense of Ecuador's livestock sector, through execution of the National Project for Eradication of Foot-and-Mouth Disease - 1996-2000. SESA also systematized the mechanisms for followup and on-going evaluation of the Project and promoted inter-institutional and inter-sectorial coordination as well as the technical and financial cooperation of the national project.

An episode of foot-and-mouth disease occurred in April, 1997, affecting both cattle and hogs on the island province of the Galápagos. Up to that moment the Islands had been considered free of foot-and-mouth disease. With support from PANAFTOSA/PAHO and APHIS/USDA, site investigations were conducted and sero-epidemiological samplings were taken from bovines on the islands of Santa Cruz, San Cristóbal, Isabela and Floreana. Virus activity was not encountered.

PANAFTOSA/PAHO supported the following training events:

- II Convention of local foot-and-mouth disease eradication committees - 150 participants.
- Seminar and Workshop on Formulation of the Foot-and-Mouth Disease (FMD) Eradication Plan in the Ecuadorian Area of the Peru-Ecuador-PAHO Agreement - 10 participants.
- Seminar Workshop on the Agricultural and Livestock Health Component, within the Program of Modernization of the Agricultural and Livestock Services - 120 participants.

Moreover, the Seminar Workshop on Simulation of Control of Foot-and-Mouth Disease Outbreaks was held in Tulcán for 35 participants from the official and private sectors, 32 from Ecuador and three from Colombia. The Meeting of the Ecuador-Colombia-PAHO binational technical committee, 1997, was also held.

Peru issued Supreme Decree No. 012-97-AG, temporarily suspending the entry of susceptible livestock along its northern border in order to block the entry of the foot-and-mouth disease virus. The National Agrarian Health Service (SENASA) implemented quarantine stations in Jaén, Piura and Tumbes on the northern border, and at Puno on the southeastern border. The active participation of companies, veterinarians and agrarian technical personnel is being energetically solicited in monitoring foot-and-mouth disease vaccination and in training the livestock raisers; informative material has been prepared to support the animal health educational campaign.

The Autonomous Agricultural and Livestock Health Service (SASA) of Venezuela conducted a sero-epidemiological survey in the state of Bolívar. The objective was to verify the absence of viral activity, in view of the fact that no cases of foot-and-mouth disease had been reported for three years in that state. A program was also set in motion to create 22 emergency units for control of foot-and-mouth disease outbreaks, in coordination with the ICA-USDA Program.

PANAFTOSA/PAHO participated jointly with diplomats and heads of the national programs of the countries in the subregion in a visit to the headquarters of the European Community, with the purpose of seeking disbursement of the funding that institution had allocated to cofinance the regional subproject.

2.3 Amazon subregional project of prevention, control and eradication of foot-and-mouth disease

In attention to this resolution, it was recommended that the countries included in this project undertake the measures necessary to reach the goals set by PHEFA. Brazil should maintain its efforts to support the livestock circuits in the central west and east. With support from PANAFTOSA/PAHO, steps should be taken to establish a free area in the Brazil-Guyana-Venezuela border area. With this in mind, the following activities were carried out:

Brazil considers the National Animal Health Committee an example of the joint work accomplished by and between the official and private sectors in the eradication of foot-and-mouth disease. This Committee is the major body for decisions on a national scope and enjoys the participation of numerous private organizations that support the sanitary programs at state and municipal level throughout the country.

Eleven courses were given in the northern livestock-raising circuit—nine to train vaccinators, one on computerized information, and one to train sanitary agents. In the central western circuit the seventh and eighth meetings of the respective livestock-raising circuit were held, plus two courses on epidemiological surveillance, one on sanitary education and communications and one on training vaccinators, one Seminar on Information Systems and another covering Diseases Confusable with Foot-and-Mouth Disease. In the eastern livestock-raising circuit a course was held on exotic and emergency diseases and another on sanitary education.

In response to the request from the Department of Agricultural and Livestock Defense and Inspection (IAGRO) of the state of Mato Grosso do Sul, PANAFTOSA/PAHO offered a refresher course on foot-and-mouth disease epidemiology, control and prevention. It was attended by 23 veterinary doctors from various local offices. That course made it possible for the first time to apply a surveillance model oriented toward prevention instead of toward control and eradication, a consequence of the progress observed in Brazil's Central West and Southern livestock circuits.

2.4 Expansion and change of mandates of the Public Veterinary Health Centers of the Pan American Health Organization

By virtue of this Resolution, which refers to the expansion of the scope of activities of the PANAFTOSA/PAHO in supporting the countries in their fight against other diseases, it hereby becomes a Continental Reference Center for Animal Health and Zoonoses. The following actions were taken:

In response to the report and recommendations submitted by the GEA (Group of External Advisors) to the PAHO Director about the public veterinary health Program, and within the framework of the plan of action to implement the GEA's recommendations, the PAHO/WHO Director formed two working groups, one to analyze the technical aspects and the other to assess the administrative and financial aspects.

The group in charge of implementing technical action 2.1.C —“Establish mechanisms for coordination with the Pan American Foot-and-Mouth Disease Center for the transfer of functions and performance of joint activities of technical cooperation”— performed its activities in two stages, one at the headquarters in Washington and the other at PANAFTOSA/PAHO.

Based on a thorough analysis of the overall geographical, political, economic and epidemiological situation, and of the Organization itself, the group's conclusions and recommendations emphasize that the functions concerning priority zoonoses should be transferred quickly to PANAFTOSA/PAHO (with mandate from the directing entities) in order to prevent a greater decline in the quality of the technical cooperation provided by PAHO. Optimal operational implementation should be accomplished in approximately two and a half years, counting from the commencement of the aforementioned functions. Although PANAFTOSA/PAHO requires a reinforcement of personnel and financial resources, it is prepared to assume the responsibility for the functions of technical cooperation with respect to zoonoses.

2.5 Integration of the animal-health actions among the private and public sectors

This Resolution means that each country should implement action to foster the organization of the livestock production chain and an association between the public and private sectors.

Argentina estimates that the private sector annually contributes US\$ 100 million dollars while the official sector provides about US\$ 27 million.

Ecuador was able to achieve social participation through the formation of 119 local committees coordinated by CONEFA.

In Paraguay, co-management by the official and private sectors was reached through Animal Health Commissions composed of the representatives of the sectors of the community, especially livestock raisers who should be represented by three members, one of whom acts as president. The member from the National Animal Health Service (SENACSA) acts as coordinator and ex officio secretary. The Commissions are regulated by Resolution Nr. 259/93 and are recognized by Resolution of the Directing Council of the SENACSA. Moreover, they have a central commission on foot-and-mouth disease eradication that is subjoined to the Central Board of the Rural Association of Paraguay which also participates actively in the program.

The Inter-Institutional Commission on foot-and-mouth disease eradication was constituted by Law No. 808/96 and is composed of the presidents and members of the Rural Association of Paraguay and of SENACSA. It promotes the formation of animal health commissions and provides the Program with an important source of funding by means of a 1% parafiscal fee charged on livestock transit, and on the importation and exportation of animals and animal products and by-products.

In Peru, five local committees were created with technical supervision provided by SENASA.

Venezuela has started to implement a program to fight foot-and-mouth disease based on regional commissions comprising different elements of the livestock sector and regional government. This effort is underway in the states of Apure, Barinas, Bolivar, Carabobo, Cojedes, Falcón, Guarico, Lara, Mérida, Monagas, Portuguesa, Táchira, Trujillo, Yaracuy and Zulia. The presence of these commissions has impelled the program to expand and receive greater funding from the producers through agreements with the SASA.

Colombia, on the other hand, continues to implement the livestock-raisers committees with joint coordination from ICA and FEDEGAN. To date, 91 committees have been organized, concentrated mainly in the region of the coast and Venezuelan border.

Cuba is developing a project to create "productive municipalities," which are conceived as the areas or "territories" wherein actions are coordinated to foster animal health, production and productivity in a sustainable way. These "municipalities" seek to unite the political and economic sectors and the local human population in the interest of upgrading the communities' well-being. Eight municipalities have been selected for the pilot project.

The General Office of the Institute of Veterinary Medicine requested the technical cooperation of the representative of Cuba and of PANAFTOSA/PAHO to hold Seminar-Workshops on Productive Municipalities. Initially, the goal is to train 35 professionals drawn from the ministries of Health and Agriculture in all the island nation's provinces, who may then serve as multipliers in their pertinent areas.

2.6 New by-laws for COSALFA

This resolution, which recommends that livestock producers be eligible for inclusion as COSALFA members, requires changes in the by-laws. Therefore the ex officio Secretary of COSALFA has sent to the countries a letter of consultation with a copy of the by-laws and the alterations that were approved at the XXIV Regular Meeting and which would include producers as full members of COSALFA.

2.7 International Seminar on Total Sanitary Control of the Agricultural and Livestock Production Chain

In compliance with Resolution VIII of the XXIII COSALFA, PANAFTOSA/PAHO organized the above-mentioned Seminar, at which some major topics were discussed, such as:

The total sanitary quality of the production chain is the great challenge that will be faced by the countries already freed of foot-and-mouth disease and by those on the way to that status.

The concept of risk and the principles of equivalency, transparency and harmonization, terms that have taken on major importance in the wake of the globalization of the world economy, include the stages of risk analysis at the different levels of the production chain: livestock production, industrial, transport, storage, commercialization and consumption.

The importance of risk analysis and of critical control points in the various stages of the production chain offer advantages of a system of control over the entire process, in contrast to the classic method of final inspection of the product.

The certification of quality in the production chain as a technical and methodological reference for the organization of a broad, flexible and monitorable system, which could be feasibly recognized world-wide for the formal classification of the management of the processes of production and commercialization of meat and meat products based on "quality management." In the near future the quality systems will be a reality in the international trade of animals and animal products.

The private sector's organized participation in the production chain of the countries plays a very important role in the globalization of the world economy within the scope of South American integration.

The non-industrial production of food products and the possibility of obtaining sanitary and health guarantees on this type of production and the community organization is a valid alternative for food protection supported on the local initiative and political commitment that favors the mobilization of resources and inter-sectorial involvement and cooperation.

The following were some conclusions reached by the working groups:

Globalization of the economy in itself is a critical factor that should favor the integration of all the members of the chain, such as livestock producers, transporters, processors, buyers and sellers, consumers, and every person or group linked to the livestock sector.

The state's fundamental role should be to control, regulate, standardize, legislate, and promote.

The state's promotion activities should be carried out within a strategic planning that brings the producers into the decisionmaking process in aspects of concern to them, should organize and motivate by demonstrating the economic benefits that they may gain, and should also promote the exchange of technical know-how and information among countries. The international agencies may coordinate that exchange and facilitate the technical cooperation along the entire production chain.

The production systems should adopt the required modifications intended to obtain products competitive in quality and quantity in accordance with the markets' demands with respect to the use of herbicides and pesticides, environmental protection, and improvements in the care and handling of animals.

Serious thought should be directed to establishing a South American system of quality certification of meat and dairy products based on sound production, manufacture and commercialization practices for small, medium and large producers. Minimum standards equivalent to international standards should be determined to guarantee that the products have suitable levels of quality.

The ISO 9000 quality standard is not applicable to livestock production systems. More flexible standards should therefore be set to define sound practices of livestock production, with respect to genetics, nutritional base, health and hygiene, production and handling cycles, and administrative costs.

The main factor in achieving the improvement of quality in the production system is the education of the producer based on the application of regulations.

The hygienic conditions of the non-industrialized products must be upgraded in order to protect the consumer's health and promote the competitive level of the non-industrial producer.

The consumer must be duly informed of his/her right to demand hygienically safe products in order to pressure the production system to provide products with recognized sanitary quality. The first step to reach this position is to begin with a national survey of the population's degree of knowledge about the importance of the quality of the products at the level of the different links in the food chain. Then next step would be to promote official and private joint action to disseminate the pertinent information.

The participants of the Seminar requested PAHO to convoke the interested countries to designate a group of specialized technical personnel, to establish the bases of a system to define the quality indicators, critical control points, and sound practices of production and manufacture, and to draft a plan of action for the countries to create a system of approval of quality standards for meats and dairy products.

Likewise, the Seminar participants expressed the desirability of setting standards for preservation of the environment within the process of the production chain in order to achieve sustained development without adversely affecting the environment. They recommended the creation of a Commission to review and compile the existing environmental legislation in each of the countries.

2.8 Expression of Gratitude to the Republic of Colombia

The Secretary thanked the Republic of Colombia, especially the Colombian Agricultural and Livestock Institute (ICA), members of the National Foot-and-Mouth Disease Commission and of FEDEGAN for their cooperation in the successful organization of the International Seminar and of the XXIV Regular Meeting of COSALFA.

2.9 Designation of the site of COSALFA XXVI

In compliance with this Resolution, we will have the privilege of holding COSALFA XXVI in the city of Porto Alegre, Rio Grande do Sul, Brazil.

3. BORDER MEETINGS

The following border agreements have held meetings:

Chile-Peru, Chile-Argentina, Chile-Bolivia.

The XII Meeting of the Colombia-Venezuela Animal Health Agreement was held at the offices of the Federation of Livestock Producers of the Basin of the Lake (FEDELAGO) in the city of Maracaibo, state of Zulia. The objective was to evaluate the degree of compliance with the recommendations of the preceding meeting held in Cúcuta, in order to be able to define operating strategies that could improve the indices of health gains and coverage of the scheduled actions, mainly with respect to harmonizing the vaccination cycles along the border areas of the two countries.

On this occasion, PANAFTOSA/PAHO proposed the development of Integrated Subregional Projects to replace the current Sanitary Border Agreements in the Andean area with specific goals and resources. PANAFTOSA/PAHO also submitted for discussion a group of indicators to evaluate the special border projects in the subregion.

4. REPRESENTATION AT INTERNATIONAL MEETINGS

PANAFTOSA/PAHO participated in several international meetings related to the topic of foot-and-mouth disease, during January, May and September, 1997, in Paris, France:

- Regular meeting of the OIE Commission on foot-and-mouth disease and other epizootics.
- 65th General Session of the International Committee of the OIE, representing COSALFA.
- Meeting of the OIE Commission on foot-and-mouth disease and other epizootics.

The Andean Group submitted to the Meeting the Subregional Project for the Control and Eradication of Foot-and-Mouth Disease in the Andean Area as part of the Hemispheric Plan for Eradication of Foot-and-Mouth Disease, for approval by the Director for Latin America and other authorities of the European Community in Brussels, Belgium, June, 1997.

5. RESEARCH PROJECTS

The following projects were conducted in 1997:

- Molecular characterization of foot-and-mouth disease virus strains by sequencing and comparison with monoclonal strains active in Brazil and Colombia.
- Identification of monoclonal antibodies against specific epitopes of the foot-and-mouth disease virus to support diagnosis using mapping techniques.
- PANAFTOSA/PAHO and FAO/IAEA joint project to develop an ELISA antibodies test for diagnosis of foot-and-mouth disease, with Argentina, Brazil, Colombia, Paraguay and Venezuela.
- Tests with formulations of non-adjuvanted foot-and-mouth disease vaccines, to be used in emergency areas.
- Evaluation of the level of antibodies induced against non-structural proteins of the foot-and-mouth disease virus in animals immunized with commercial and experimental vaccines.
- Standardization of tests for the detection of non-structural proteins in vaccine preparations.
- Scaling-up the production of reagents for the EITB test.
- Development of an indirect ELISA method using the recombinant protein 3ABC, 3B and 3A.

After a break the meeting continued with comments by the participants:

Dr. Carlos Echeverría, delegate from Ecuador, asked for the floor to award Dr. Astudillo a plaque recognizing and honoring his professional efforts, conferred by the College of Veterinary Doctors of Pichincha, Ecuador.

The Delegate from Paraguay submitted a motion, unanimously seconded by all the delegates, requesting COSALFA to draft a Resolution asking the Director of the PAHO to name Dr. Astudillo as Director Emeritus of the Pan American Foot-and-Mouth Disease Center.

With respect to the amendments of the PANAFTOSA/PAHO mandates, to include some zoonoses, Dr. Alberto Pecker, the Argentine Delegate, said that he understood the need to restructure the technical cooperation with the addition of new responsibilities. However, that should not mean a reduction in PANAFTOSA/PAHO's involvement with vesicular diseases, in view of the level of advances recorded by the countries in the eradication of foot-and-mouth disease and the objectives proposed in the PHEFA.

Dr. Primo Arámbulo III, Coordinator of HCV, asked for the floor to discuss the advances observed in the subject of restructuring since the last RIMSA, and reiterated that both INPPAZ and PANAFTOSA are complying with the recommendations of the outside advisory group, and that PANAFTOSA will have the resources needed to establish a cooperative network with other institutions in order to fulfill its new responsibilities. He added that the Director of PAHO/WHO had decided to postpone all action until PANAFTOSA relocated to its new premises.

Dr. Aluisio Berbert Sathler, Director of DDAMA, stressed that any delay in making the modifications required with respect to the new responsibilities could delay the disbursement of resources from Brazil to PANAFTOSA, and he asked that the Director of PAHO officially communicate Dr. Arámbulo's comments to the countries.

Continuing with the agenda of the meeting, Dr. Narey Cotrina discussed the continental surveillance and information system, highlighting the reduction in the geographic surface affected, a consequence of the decline in the number of episodes. This change is noted in that 82% of the gridsquares posted a low frequency of episodes, from 1 to 7 weeks of presence. He also stressed the low level of diagnostic confirmations, due to the fact that the level of collection of samples in the gridsquares with suspicions was lower than expected.

He emphasized that the modernization of the official service has modified the system of notices, which became more dependent on the beneficiaries than on official surveillance. The community provided more than 80% of the notices, but efficient sanitary intervention can only be achieved through the implementation of educational activities that reduce the average time lapses between first symptoms - notices - response.

He indicated that the countries improved the speed of the weekly flow of information to PANAFTOSA/PAHO, excepting Brazil and Venezuela, which continued irregular and late. Likewise, the weekly information coverage was low in Bolivia, Brazil and Venezuela, which means a degree of partial monitoring, at the local level, in the surveillance of the epidemiological situation.

Once again attention was drawn to the need to improve surveillance along the border areas by means of bilateral meetings, communications of alert and control of the episodes in those areas.

Response to 356 suspected cases was fast in the free area. But mechanisms must be generated so that in the future all suspicions are incorporated into the weekly communication channel and corresponding follow-through with the objective of providing greater transparency of the epidemiological situation of the countries and zones under this condition.

The Meeting continued with a discussion of the sanitary situation of the vesicular diseases in each regional subproject, as well as an evaluation of the national programs in each of the subregional projects.

Dr. Francisco Muzio presented the current status of the programs in the River Plate Basin Subproject, pointing out the advances noted throughout the period, the surveillance activities that operate with a view to prevention and therefore confirm all suspicions of vesicular disease, and the technical cooperation activities carried out in the subregion.

He highlighted the support rendered to Bolivia's National Secretariat of Agriculture and Livestock (SNAG) in the preparation of its basic working programs. That included the proposal for partial funding of the Beni-Pando module with funds from PL-480, and the proposal for coordination of the information system similar to the model utilized in the countries of the Project.

He also mentioned the Committee's regular meetings and future activities, which include a visit to the Argentina-Bolivia border in June, 1998, to evaluate the border stations.

Dr. Hugo Tamayo then talked about the Subregional Project in the Andean Area. He highlighted the zonal components or border projects included in the subregional project, made a comparative analysis of some indicators of morbi-mortality and coverage of foot-and-mouth disease vaccination at the subregional and country levels for the 1995-1997 two-year period. He concluded by pointing out that although 1997 shows a slight increase in the affected herds and morbi-mortality rates for the region, in comparison with preceding years, the tendency to decrease can be seen since 1994. But he added that although an increase in vaccine coverage has been noted, the level achieved is still incompatible with the goal of eradication of the disease.

Dr. Victor Saraiva then presented the advances observed in the scenario of the Subregional Amazonian and non-Amazonian Brazil Project. He pointed out the increased

time span without any report of foot-and-mouth disease in the area, except for the single outbreak of the disease identified in February of this year at Porto Murinho in the State of Mato Grosso do Sul. The topic was taken up by the Brazilian Delegation that discussed the occurrence of two outbreaks of the disease in the Porto Murinho region near the Paraguayan border. The information was provided by a rancher in the region, who was promptly attended by personnel from IAGRO.

He mentioned that the disease has been absent for at least two years in the Federal District, Espírito Santo, Goiás, Mato Grosso and Minas Gerais, all of which signifies an advance in the objectives of the central west livestock-production circuit and eastern circuit in the case of Espírito Santo. He reiterated the need to increase efforts to identify the free area in the northern region of the South American Continent (Bolívar state in Venezuela, Guyana and the State of Roraima in Brazil), supported by sero-epidemiological evaluations.

Dr. Héctor Campos López, Adjunct Director of Agricultural and Livestock Health of the IICA, took the floor to submit the proposal of the Institute's Plan of Action. It supports the region's countries in the pursuit of an optimal situation of agro-livestock health and of food safety, which causes an impact on the human populations' quality of life as well as on comparative advantages related to the international market. The proposal seeks to contribute to the process of modernization of the organization, infrastructure and operation of the national agro-livestock health systems and cooperate with them in fulfilling the commitments in the regional and international scopes.

Dr. Gina Zanela, representing the Central Office of the OIE, explained the process of certification of the disease-free areas, with and without vaccination, according to the criteria accepted by the Office. She added information about the advances observed in the Southern Cone and especially the imminent certification of Rio Grande do Sul and Santa Catarina as free areas with vaccination.

Dr. Emilio Gimeno, as representative of the OIE Office for the Americas, informed about the inaugural meeting of the Office, headquartered in Buenos Aires, and its mission as a forum for the compatibilization of animal-health matters in South America. He also announced that the OIE will sponsor a Meeting next August in Salvador, Bahia, Brazil, to discuss the standardization of protocols for the control of veterinary medications in the MERCOSUR area. He invited all those present to attend the event.

IN WITNESS WHEREOF, the Chairman of the meeting, Dr. Aluisio Berbert Sathler, Director of the Department of Animal Defense of the Ministry Agriculture and Food Supply of Brazil, the Director of the Pan American Foot-and-Mouth Disease Center (PANAFTOSA), Secretary ex officio of COSALFA and the Delegates of the Official and Livestock Sectors of the member countries, sign the present Final Report in Spanish and English languages, both texts being equally authentic.

Done in Campo Grande, MS, Brazil, on this twenty-seven day of March, nineteen and ninety eight.

Aluisio Sathler
President
Director of the Department of
Animal Health- MAA

B. Tuckillo
Secretary ex officio
Director of the Pan American
Foot-and-Mouth Disease
Center (PANAFTOSA/PAHO/WHO)

[Signature]
Delegate of Argentina
(Official Sector)

[Signature]
Delegate of Argentina
(Livestock Sector)

M. Zeballo
Delegate of Bolivia
(Official Sector)

[Signature]
Delegate of Bolivia
(Livestock Sector)

Aluisio Sathler
Delegate of Brazil
(Official Sector)

Jose A. A. do A. A. do A.
Delegate of Brazil
(Livestock Sector)

[Signature]
Delegate of Chile
(Official Sector)

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Delegate of Colombia
(Official Sector)

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Delegate of Colombia
(Livestock Sector)

Delegate of Ecuador
(Official Sector)

Delegate of Ecuador
(Livestock Sector)

Delegate of Guyana
(Official Sector)

Delegate of Paraguay
(Official Sector)

Delegate of Paraguay
(Livestock Sector)

Delegate of Peru
(Official Sector)

Delegate of Uruguay
(Official Sector)

Delegate of Uruguay
(Livestock Sector)

Delegate of Venezuela
(Official Sector)

Delegate of Venezuela
(Livestock Sector)

Bravo

RESOLUTIONS



RESOLUTION I
River Plate Basin Subregional Project

THE XXV REGULAR MEETING OF COSALFA,

Considering:

The excellent situation achieved by the Project for Control and Eradication of Foot-and-Mouth Disease in the River Plate Basin signifies that practically all the territory of the Southern Cone is free of the disease;

The consolidation of this situation requires the strengthening of the prevention programs, with a strong commitment by the epidemiological surveillance systems, the analysis of risks of reintroduction of the viral agent, the full functioning of the animal health emergency systems, and the development of sanitary education and social communication plans for free areas, all in a coordinated fashion in the Plate Basin Project, and

An amendment has been signed to extend the International Technical Cooperation Agreement for the Control and Eradication of Foot-and-Mouth Disease in the River Plate Basin for another five years as of the 24 April 1997, with the full inclusion of the Government of Bolivia,

RESOLVES:

1. To congratulate the countries of the Agreement of International Technical Cooperation for the Control and Eradication of Foot-and-Mouth Disease in the River Plate Basin, for the excellent results achieved.
2. To exhort the member countries to intensify their efforts to continue the development of the Project and to consolidate the mechanisms for prevention of foot-and-mouth disease and exotic diseases, within the framework of the Project for Control and Eradication of Foot-and-Mouth Disease in the River Plate Basin.
3. To exhort the Bolivian Government to put forth major effort to implement in the short term its National Project of Foot-and-Mouth Disease Control and Eradication, giving priority attention to the infrastructure.

(Approved at the plenary session
on 27 March 1998)

RESOLUTION II
Andean Subregional Project for Foot-and-Mouth Disease Eradication

THE XXV REGULAR MEETING OF COSALFA,

Considering:

The countries of the subregion, in fulfillment of Resolution II of COSALFA XXIV have transformed the Border Sanitary Agreements into Integrated Strategic Animal-Health Plans with emphasis on the prevention, control and eradication of foot-and-mouth disease;

The success of the execution of the Integrated Strategic Animal-Health Plans is associated with the implementation of a continuous and systematic process of follow-up and evaluation by the social segments linked to the national foot-and-mouth disease eradication projects, and

The Andean Subregional Project requires the availability of technical support like that which operates in the River Plate Basin Project, to facilitate and render viable the coordination of the strategies and actions of the National Foot-and-Mouth Disease eradication Programs,

RESOLVES:

1. To recommend that the representatives of the official and private sectors linked to and involved in the execution of the National Foot-and-Mouth Disease Eradication Projects grant the maximum political and financial priority indispensable for the implementation and execution of the Integrated Strategic Animal-Health Plans.
2. To encourage the countries of the Subregion to proceed urgently to select and formalize the Mixed Commissions of Follow-up and Evaluation of the Integrated Strategic Animal-Health Plans, said Commissions to be composed of personnel delegated by the official and private sectors.
3. To request that PANAFTOSA/PAHO, jointly with the countries of the subregion, study and draft up alternative proposals to designate a consultant to assume the permanent technical coordination of the Andean Project of Foot-and-Mouth Disease Eradication, independently of the Public Veterinary Health consultants existing in the PAHO/WHO personnel in the countries, and their respective funding.
4. To print and distribute to the countries of the region a proposal of an agreement that would include the creation of a fund with annual contributions to cover the costs related to the Project's activities.

(Approved at the plenary session
on 27 March 1998)

RESOLUTION III
Subregional Amazonian and non-Amazonian-Brazil Project

THE XXV REGULAR MEETING OF COSALFA,

Considering:

The execution of the control and eradication programs in the areas included in the subregional project needs to be hastened;

It is important to have a systemic view of the problem of preventing the reintroduction of the viral agent from areas in which it occurs endemically;

It is necessary to adopt mechanisms capable of ensuring the reduction of the negative impacts of foot-and-mouth disease on the commercial relations among Brazil, Bolivia and Paraguay, and

It is necessary to characterize as free an extensive area comprising Guyana and the states of Bolívar in Venezuela and Roraima in Brazil,

RESOLVES:

1. To recognize the advances achieved in the region, and to congratulate the health authorities of the countries, encouraging them to continue pursuing the objectives described in the PHEFA for the region.
2. To recommend that the countries strengthen the sanitary surveillance actions in their border zones, within the scope of the corresponding Bilateral Agreements.
3. To request that PANAFTOSA support Venezuela and Brazil in taking the steps necessary to obtain the certification of the free area, with vaccination, for their areas of Bolívar and Roraima, respectively.
4. In addition to the foregoing, to request PANAFTOSA to support Guyana in preparing an epidemiological surveillance project based on the broad participation of sectors of the society, so that the country can comply with the requirements to obtain the certification of free area without vaccination.

(Approved at the plenary session
on 27 March 1998)

RESOLUTION IV
Training of Human Resources

THE XXV REGULAR MEETING OF COSALFA,

Considering:

The evolution of the situation of foot-and-mouth disease in the countries, and the consequent actions inherent in putting greater emphasis on the eradication and prevention of the disease, require more specialized and agile activities;

All the actors in the veterinary attention systems must be kept duly trained in order to exercise their functions effectively;

There is a demand for human resource training throughout the system, but mainly as a consequence of the natural renewal of personnel in the veterinary attention services;

There are many advantages to performing professional activities with bases and criteria harmonized among the countries and regions;

The lack of continuity in the personnel training that has been observed in some countries and regions has reached critical levels in certain areas, and

A decline in training activities by the international technical cooperation agencies, particularly the PANAFTOSA/PAHO, has been noticed, due to budgetary limitations,

RESOLVES:

1. To encourage the countries to intensify their efforts to strengthen their programs to train and update their human resources.
2. To request that the Pan-American Foot-and-Mouth Disease Center (PANAFTOSA) continue to support the countries in their training activities, and that the Pan-American Health Organization (PAHO) give this matter special priority.
3. To request that the countries, with support from PANAFTOSA, prepare a Training Plan that will meet the region's major needs and serve to mobilize funding resources in the countries and from international agencies.

(Approved at the plenary session
on 27 March 1998)

RESOLUTION V
Epidemiological Surveillance System

THE XXV REGULAR MEETING OF COSALFA,

Considering:

Great progress has been made in the consolidation of foot-and-mouth disease-free spaces in South America, but endemic ecosystems still coexist in some zones and countries;

Wherever foot-and-mouth disease is absent in a country or zone of a country, the risk of vulnerability exists and justifies the protection of the free space, which makes it necessary to improve the capacity of the surveillance system by emphasizing the aspects of prevention;

New methodologies like risk analysis must be applied, which requires reliable and representative information, and

The alliance between the private and public sectors in the struggle against foot-and-mouth disease is not only gaining strength and spreading out in the countries, but is also acting on the process of surveillance,

RESOLVES:

1. To urge the countries to maintain and strengthen the system's sensitivity throughout their territories and, with the integrated participation of the production sector and the community, improve the timeliness and integrity of the mechanisms for detection of syndromes, in the notification, in the health intervention itself, and in the quality of the information.
2. To urge the official institutions responsible for the organization and execution of the programs, to strengthen the epidemiological surveillance and information system from the technical and administrative point of view, with special attention to the prevention activities, in order to avoid setbacks in the free spaces achieved or the reintroduction of exotic agents.
3. To request that the Pan American Health Organization and PANAFTOSA/PAHO, because of these new needs, promote the development of seminars and courses in the countries in order to train and/or update the methodological knowledge of the Animal Health Services personnel.

(Approved at the plenary session
on 27 March 1998)

RESOLUTION VI
Seminar

THE XXV REGULAR MEETING OF COSALFA,

Considering:

The eradication of foot-and-mouth disease from a zone, country or region engenders certain implications, and

Surveillance and information systems must be established and adapted to the new health situations,

RESOLVES:

To hold an International Seminar on Aspects of Surveillance Applied to Animal Health Management in Areas having different status of foot-and-mouth disease and without vaccination, prior to COSALFA XXVI.

(Approved at the plenary session
on 27 March 1998)

RESOLUTION VII
Director Emeritus

THE XXV REGULAR MEETING OF COSALFA,

Considering:

Dr. Vicente Astudillo has labored tirelessly as a driving force in the fight against foot-and-mouth disease in the Americas, as orienter and maker of a team of Animal Health professionals during his 28 years of service to PANAFTOSA/PAHO, first as a professional member of its technical team, and then, since 1991, as its Director, and

His invaluable presence is still needed in the fulfillment of the activities and actions proposed in the PHEFA, despite the PANAFTOSA/PAHO's requirement that he relinquish the Directorship due to having reached the Organization's mandatory age limit,

RESOLVES:

To request that the Director of the Pan-American Sanitary Bureau name Dr. Vicente Astudillo as Director Emeritus of PANAFTOSA, so that he may continue sharing his experience on behalf of the objectives of the national and subregional plans in the fight against the vesicular diseases, within the framework of the PHEFA.

(Approved in the plenary session,
on 27 March 1998)

RESOLUTION VIII
Designation of the site of COSALFA XXVI

THE XXV REGULAR MEETING OF COSALFA,

Considering:

The offer has been made by the President of FARSUL on behalf of the Government of Brazil and the State Government of Rio Grande do Sul, to host the next Regular Meeting of COSALFA,

RESOLVES:

To designate the city of Porto Alegre, in the State of Rio Grande do Sul, Brazil, as the site of the XXVI regular Meeting of COSALFA.

(Approved at the plenary session
on 27 March 1998)

RESOLUTION IX
Expression of Gratitude

THE XXV REGULAR MEETING OF COSALFA,

Considering:

This Regular Meeting of COSALFA has benefited from the inestimable support of the Government of the Federal Republic of Brazil, through the Ministry of Agriculture and Supplies (MAA), of the government of the State of Mato Grosso do Sul, through the Secretariat of the Environment and Sustainable Development (SEMADES) and of the Department of Agricultural and Livestock Defense and Inspection (IAGRO), and

This meeting would not have been possible without the support given by the authorities of the production sector represented by the Federation of Agriculture of Mato Grosso do Sul (FAMASUL) and the Association of Livestock Raisers of Mato Grosso do Sul (ACRISSUL),

RESOLVES:

To express its very sincere gratitude to the Government of the Federal Republic of Brazil, to the Ministry of Agriculture and Supplies, to the Government of Mato Grosso do Sul, to its Secretariat and Department, and to all the persons who shared in making this event possible. We are especially thankful to the State's production sector for the magnificent welcome to this hospitable city and its friendly inhabitants.

(Approved at the plenary session
on 27 March 1998)

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SEMINARIO

Brands

**INTERNATIONAL SEMINAR ON ACTIONS TO
PREVENT THE INTRODUCTION OF FOOT-AND-MOUTH DISEASE AND
OTHER EXOTIC DISEASES**

Campo Grande, Mato Grosso do Sul, Brazil, 23-25 March 1998

The Seminar was chaired by Dr. Mauricio Parra, Animal Health Director of the Colombian Agriculture and Livestock Institute (ICA). The topics were related to the focus on prevention that the countries' programs should assume in order to maintain the free status that they are striving to obtain. Special attention was directed on the risk methodology and on giving the invited countries the opportunity to share their experiences on the topic.

Discussion centered on the need to adapt the current national information and surveillance systems in the light of the changing animal-health reality, as new areas of the Continent are freed of foot-and-mouth disease and prevention strategies should replace the existing strategies, heretofore focused on eradication.

Dr. Vicente Astudillo, Director of the Pan American Foot-and-Mouth Disease Center (PANAFTOSA), commenced his talk by emphasizing the importance of prevention as an instrument to ensure good conditions of productivity and transparency in the commerce of products of animal origin, especially in view of the world-wide economic "opening" which characterizes modern times and is based on new sanitary paradigms.

He stressed the importance of developing non-traditional experiences in the delivery of veterinary attention, based on a broad community participation and utilizing concepts of primary and secondary prevention combined with the management of the risk of introduction of exotic agents.

The role and the expectations of the livestock sector vis-à-vis prevention was the topic submitted by Dr. João Ayub Ferraz, President of ACRISSUL. Upon characterizing the importance of the beef cattle industry in the national economy, he highlighted the important share belonging to the State of Mato Grosso do Sul, Brazil, with its 23 million head of cattle.

To exemplify the participation of the production sector, he mentioned that Brazil's first experience in shared management of animal health took place in Mato Grosso do Sul. The recent outbreak of foot-and-mouth disease in the municipality of Porto Murtinho highlighted the production sector's quick response in participating with action, personnel and financial support for the activities of eradicating the outbreak.

The discussion of the topic *"Methodological bases for the preparation of risk analysis"* by Dr. Victor Saraiva, of PANAFTOSA, preceded the presentations of the experiences lived by the Continent's free countries or countries in the process of freeing themselves of foot-and-mouth disease. His purpose was to establish the basic criteria for the use of this methodology in the development of systems to prevent the reintroduction of foot-and-mouth disease in their territories.

The concepts of attributable and acceptable risk were emphasized, as well as the conceptualization of primary, secondary and tertiary prevention, whose examples were detailed in the presentations that followed.

Examples were also given of how to use the methodology in establishing the regionalization of risk in South America; the criteria orient the creation of eradication and prevention strategies to ensure the maintenance of the free status.

Among the presentations of the experiences of the countries, Dr. Luis Días of the Livestock Services of Uruguay's Ministry of Livestock, Agriculture and Fishing, commenced his talk about *"Administration of the risk of introduction of an exotic agent"* by emphasizing that the sanitary standards in his country are in strict correlation with the sanitary procedures of the International Office of Epizootics (OIE) and the World Trade Organization (WTO).

He described in detail Uruguay's existing sanitary infrastructure, prepared for the prevention of exotic diseases, the budget and the sources of funds for the service, sanitary barriers and the startup of international sanitary agreements that support the sanitary prevention policy adopted by the country. He summarized that the policy's success was based on the continuous processes of training the personnel involved and in maintaining social concern and awareness.

The topic *"Analysis of risk of introduction of foot-and-mouth disease virus in Argentina"*, presented by Dr. Eduardo L. Grecco and Sergio Duffy, highlighted the existence of a multidisciplinary and inter-institutional risk analysis team in Argentina that conducts qualitative and quantitative analyses of the introduction of foot-and-mouth disease virus into the country. The speakers detailed the sources of data and methodologies utilized to characterize the risk, and presented a flowchart of the risk model for foot-and-mouth disease, from which alternative prevention processes were defined and existing mechanisms strengthened.

Dr. Ruben Moreira Zúñiga of the Agriculture and Livestock Service (SAG) presented the topic *"Analysis of risk of the introduction of foot-and-mouth disease into Chile"* utilizing as examples the actions in the process of eradicating foot-and-mouth disease in his country. Those actions were based on an operational strategy implemented from south to north that culminated in the recognition of Chile as free in 1981. The country faced two reintroductions of the agent—from the Argentine side of the Cordillera—in 1984 and 1987, due to traditional livestock raising practices in that area.

Dr. Moreira highlighted the eradication strategies adopted on each occasion, based on the delimitation of the threatened zone, the infected zone, prohibition of mobilization of livestock

and elimination of animals. He stressed the need to establish a "sentinelization" program prior to recovering the free status of the area affected. He described in detail the methodology utilized in the Chilean experience.

On the second day of the Seminar a panel composed of the following panelists was formed: Dr. Marilisa Petry, Secretariat of Agriculture of the State of Rio Grande do Sul; Dr. Edison Veran, Department of Animal Defense of the State of Santa Catarina, and Dr. Bob Bokma of APHIS/USDA.

The purpose for setting up the panel was to enrich the participants with information from other prevention experiences, thus contributing to the discussions by the working groups that were formed afterwards.

The first two panelists made a historical summary of the occurrence of foot-and-mouth disease in the States of Rio Grande do Sul and Santa Catarina, described their livestock circuits, the strategy for delimiting the foot-and-mouth disease area and the prevention method executed in the area, based on the OIE's pertinent sanitary norms.

Dr. Bokma described the United States' experience in the prevention of exotic diseases, and referred to the regionalization of risk that may have national, geopolitical and ecological connotations and which serves as a basis for the prevention of the introduction of exotic agents into the country.

The four working groups that were set up had as their objective to consider and delve deeply into the discussion and understanding of some of the concepts presented in the following themes:

- **Primary prevention and risk analysis**
Grecco, E.L., Duffy, S., Saraiva, V.
- **Sanitary emergency Systems**
Zúñiga, I., Gazola, R.M., Dora, J.F., Días, L.E.
- **Infrastructure of services**
Cotrina, N., López, J.W., Mendes, A.J.
- **Regionalization in the prevention of the introduction of foot-and-mouth disease**
Muzio, F.J., Tamayo, H., Schettino, D.M., Petry, M.C., Genovese, M.A.

In general one may conclude that the concept of prevention, mainly in its primary level, was not totally understood by either the official or public actors participating in the discussion groups.

However, the presentations and subsequent discussions oriented the participants to the need for the countries' veterinary services, especially those which have attained a favorable sanitary status, to begin to develop projects for surveillance systems that are directed toward prevention, stressing the primary level without disregarding the eradication actions that may already be underway.

SUMMARY OF THE DISCUSSIONS OF THE WORKING GROUPS

PRIMARY PREVENTION AND RISK ANALYSIS

It was concluded that the epidemiological reasoning must be switched from control and eradication to measures of prevention in those countries that have reached a favorable situation. The structure of the current programs also needs to be changed, especially in the sense of seeking mechanisms to build the legal support for such activities.

As a guide for discussion, five points were listed for consideration in establishing the minimum conditions needed for a prevention program with emphasis on the primary actions.

Risk Analysis (RA) was considered as the most appropriate methodology to support the commercial processes in a world that is being changed, by the globalization of the economy, and where the risk is not necessarily always lurking in the neighboring country. There is also a special importance in identifying the risk levels when elaborating the working strategies for maintaining the free status of the regions within a given country.

In order to move a prevention program forward, the risk levels at each point of entry into the country must be identified with respect to products that may be carriers of the agent. Regarding the physical borders, a suggestion was made to revitalize the Border Agreements, providing them with tight communication links and criteria of transparency, harmonization and scientific rigor in the evaluations in the field. These Agreements must enjoy the full and wide participation of the private sector in order to guarantee their effectiveness.

All the existing sources of information—the traditional as well as the circumstantial—must be taken into account when a Risk Analysis is made, so they may all contribute information useful to the process. Historical trade records, cultural and touristic relations, in terms of origin, quantity and quality, should be utilized in the analysis. In this sense, the need was stressed to seek the cooperation of international institutions that can compile and provide the required information.

The RA should be conducted for a given product and origin, and should cover all the methodological aspects existing at the exportation or importation levels. One way of maintaining the transparency, equivalency and scientific rigor could be achieved through protocols or agreements that detail the prevention criteria intended to be established.

Therefore, the group reiterates the RA's importance in the process and suggests that this method be taken as a model for the Continent, and that its utilization be increased through the due training of personnel to implement it.

To adapt the structures of the present-day programs to a vision of prevention, it will be necessary to develop a legal support that identifies the responsibilities of the sectors involved and defines levels of authority. It may be necessary to make agreements with other public entities (police, army, customs offices) and with entities in the private sector. This aspect must be based on a strong process of social communication, with messages directed toward the large producers reiterating the importance of maintaining the sanitary status in order to obtain more and better markets, and information to the general public in an understandable, accessible form, to achieve and secure its participation in the stages of primary prevention.

One way of encouraging the acceptance and passage of pertinent laws could be by including the concepts of primary prevention in the consumer protection laws, because of the impact that this aspect has in the higher legislative spheres.

The subject of the resources needed to maintain a prevention structure that should privilege the key surveillance points was discussed with the purpose in mind that the private sector may contribute and request that the official authorities pay more attention to such key points. The resources nowadays obtained for control and eradication activities should be switched to prevention as the animal-health situation of the region changes.

It was emphasized that the private sector's participation should be more than merely making financial contributions to the activities. The private sector must become part of the coordinating entities at all the levels and feel obligated to contribute with epidemiological surveillance.

SANITARY EMERGENCY SYSTEMS

As a result of the discussions, the group presented a proposal summarized in a Sanitary Emergency Plan for foot-and-mouth disease (Figure 1), highlighting the main aspects that should be taken into consideration during the development and implementation of the plan. The group understands that these elements are essential, but that others may be developed according to each (different) situation.

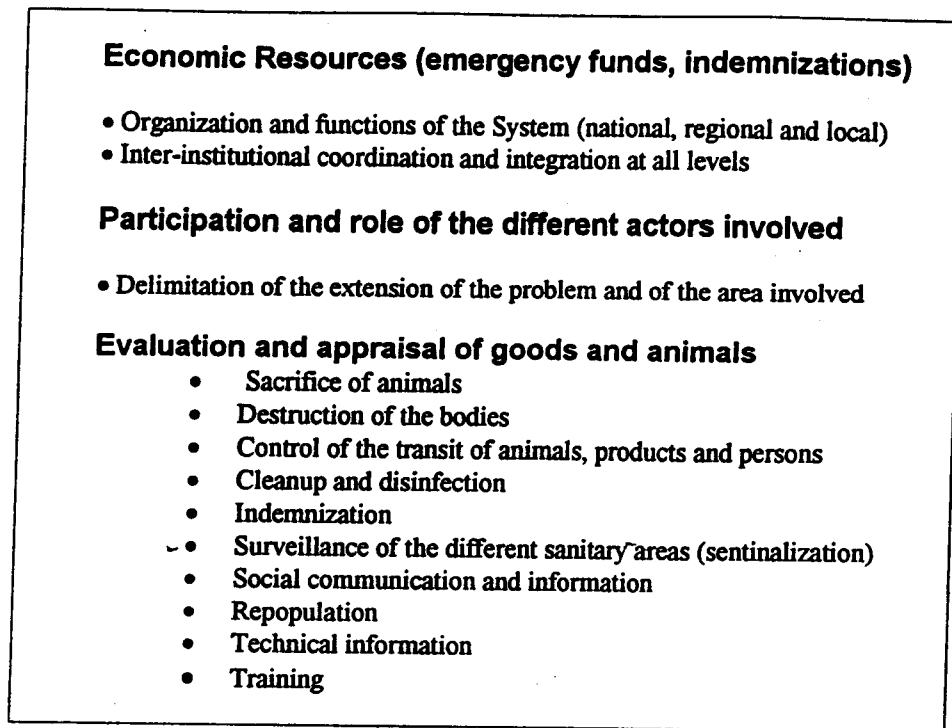


Figure 1. Legal Base

INFRASTRUCTURE OF SERVICES

The infrastructure that would be required to carry out the activities for prevention of foot-and-mouth disease and other exotic diseases, based on the three levels of prevention, was discussed.

The following are the structural aspects regarded as essential to the prevention system:

- (a) that the structure and products of the information system in use enable analysts to classify the risks that affect the territorial space, as a form of orienting the prevention actions;
- (b) that by means of the community's active participation, the epidemiological surveillance systems acquire great sensitivity in the timely detection and elimination of the agent;
- (c) maintain a permanent structure to train the personnel involved in the process, and
- (d) stimulate the participation of the community's actors , by means of social communication.

It was proposed that the operations related to the Plan be contained in the following levels of prevention:

1. Primary (prevention)

- (a) sanitary barriers (ports, airports, border stations), importation of animals, products, genetics;
- (b) broad, specific legislation that covers foot-and-mouth disease and other exotic diseases;
- (c) agile, dynamic information system, that supports the taking of ast, specific actions;
- (d) structured official veterinary attention service at all the levels;
- (e) sanitary education and social communication, for the participation of all the members of the production chain and community in general;
- (f) support of the reference diagnosis, for monitoring purposes;
- (g) training and recycling of the human resources at all levels and sectors that are directly involved in the process;
- (h) financial resources for indemnizations, and
- (i) material resources needed to support the operations of transportation, and communications.

2. Secondary (detection and strategy of action against the agent)

This level needs the aforementioned structural elements and will draw on some of the processes mentioned for the primary level. It must also be supported by a veterinary attention system with high capilarity that ensures the taking of detection, control and eradication actions based on an information system that includes the community.

3. Tertiary (actions toward recovering the ideal situation)

Among the most important points with respect to this level, in addition to those previously described and identified, was the need to have emergency financial support and material resources that cover the expenses ensuing from the activities of sacrifice and destruction of animals and fomites, and of a laboratory support structure for the serological follow-up of the process of recovering the previous ideal condition.

REGIONALIZATION IN THE PREVENTION OF THE INTRODUCTION OF FOOT-AND-MOUTH DISEASE AND OTHER EXOTIC DISEASES

The importance and dynamics of the regional circuits of livestock production and commercialization were interpreted and the bases proposed for a foot-and-mouth disease prevention plan with emphasis on regional integration.

The plenary session's general consensus was that the characterization of the production and commercialization circuits on the Continent should undergo permanent and continuous updating. That would enable the risk analyses to be conducted with up-to-date information.

The following components were proposed as the minimum required for the development of the joint bi- or multinational prevention strategies with a regional character:

- political decision for the eradication of the disease, endowing the sanitary programs with the mechanisms and resources needed for their success;
- sanitary legislation commensurate with the real epidemiological situation for the prevention of the introduction of foot-and-mouth disease into the region's free areas or countries;
- promotion of regional agreements having homogenous structures and procedures, in the coordination and execution of the project, like the River Plate Basin Agreement;
- integration of the veterinary services, reactivating the inter-country sanitary agreements and incorporating therein the integrated prevention plans. The activity of "border station visits" should be reinstated with the active participation of the livestock producers;
- make the livestock producer aware of the advantages of all factors, especially the economic ones, that accompany the eradication of foot-and-mouth disease;
- training of all the elements in the livestock-production chain, with emphasis on the livestock producers, within a program of sanitary education and social communication, seeking to achieve their effective active participation;
- refresher training of private and official veterinarians by means of courses, seminars, etc., of regional characterization with emphasis on the prevention of foot-and-mouth disease and other exotic diseases;
- modernizing and updating of the curricula at the veterinary schools, with respect to the prevention of foot-and-mouth disease and other exotic diseases;
- institutionalization of the livestock producers' participation in the programs and in the regional decision-making agencies and entities.

APPENDICES

2/1/2020

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XXV REGULAR MEETING**

Campo Grande, Mato Grosso do Sul, Brazil, 26-27 March 1998

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**SOUTH-AMERICAN COMMISSION FOR THE CONTROL OF FOOT-AND-MOUTH DISEASE
XXV REGULAR MEETING**

Campo Grande, Mato Grosso do Sul, Brazil, 26-27 March 1998

AGENDA

Thursday, 26 March

- 09:00 Opening Session
09:30 Report of the Secretary
10:30 Discussion of the Report
- 11:00 Coffee break
- 11:15 Continental Vesicular Diseases Surveillance & Information System
- 12:00 Discussion
- 12:30 Lunch
- 14:00 Situation of the countries: Subregional Projects
- Plate Basin
 - Andean Area
 - Amazon Area and Brazil
- 16:00 Coffee break
17:00 Presentation of the Recommendations of COHEFA VI and RIMSA X, 1997

Friday, 27 March

- 09:00 Other Topics
10:30 Coffee break
11:00 Other Topics (cont.)
- 12:00 Lunch
- 14:00 Presentation and discussion of the Resolutions
- 16:00 Closing Ceremony

**INTERNATIONAL SEMINAR ON ACTIONS TO
PREVENT THE INTRODUCTION OF FOOT-AND-MOUTH DISEASE AND
OTHER EXOTIC DISEASES**

Campo Grande, Mato Grosso do Sul, Brazil, 23-25 March 1998

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**INTERNATIONAL SEMINAR ON ACTIONS TO
PREVENT THE INTRODUCTION OF FOOT-AND-MOUTH DISEASE AND
OTHER EXOTIC DISEASES**

Campo Grande, Mato Grosso do Sul, Brazil, 23-25 March 1998

AGENDA

Monday, 23 March

- 08:00 Registration
- 09:00 Opening ceremony with the Director of the Pan-American Foot-and-Mouth Disease Center, Secretary of Agriculture and Supplies of the State of Mato Grosso do Sul; President of IAGRO; President of ACRISUL and Representative of the Ministry of Agriculture and Supplies.
- 09:30 Coffee break
- 10:00 Opening conference: Prevention as the instrument to ensure good conditions of livestock productivity and commerce - *Dr. Vicente Astudillo*
- 11:00 Expectations and role of the livestock sector in prevention - *Dr. João Ayub*
- 12:00 Discussion of the topics presented
- 12:30 Lunch
- 14:00 Methodological bases for risk characterization - *Dr. Victor Saraiva*
- 15:00 Coffee break
- 15:30 Administration of the risk of introduction of an exotic agent - *Dr. L. Dias*
- 16:30 Use of risk analysis in prevention
- 17:15 Sentinel systems in prevention
- 18:00 Discussion of the topics presented
- 19:00 Welcome cocktail

Tuesday, 24 March

- 08:30 Panel of some countries' experiences in prevention:
Brazil: Min. of Agriculture and ADS of states of Mato Grosso, Mato Grosso do Sul, Paraná, Rio Grande do Sul and Santa Catarina; Paraguay and USA.
- 10:30 Coffee break
- 11:00 Continuation of the panelists' talks
- 11:30 Discussion
- 12:30 Lunch
- 14:30 Group tasks
Topics: a) Organization of the veterinary attention system in prevention: administration, inter-institutional coordination; b) risk containment: aspects of internal and external biosafety, and c) system of response to contingencies, functions and responsibilities: official sector and private sector.

Wednesday, 25 March

- 08:30 Continuation of group tasks
- 12:30 Lunch
- 14:00 Presentations by the groups
- 16:00 Conclusions and closing ceremony

**INTERNATIONAL SEMINAR ON ACTION
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DISEASE AND OTHER EXOTIC DISEASES**

DOCUMENTS DISTRIBUTED

- ASTUDILLO, V. El papel del análisis de riesgos en la regionalización.
- ASTUDILLO, V. Participación social en la erradicación de la fiebre aftosa en América del Sur.
- ASTUDILLO, V., SUTMÖLLER, P., SARAIVA, V., LÓPEZ, A. Risks of introducing foot-and-mouth disease through the importation of beef from South America. *Rev. Sci. Tech. Off. Int. Epiz.*, 16 (1): 33-44, 1997.
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1. Evaluation of programs for the combat against foot-and-mouth disease..... 1977
2. Administration of programs for the control
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3. Regional strategies for the combat against foot-and-mouth disease 1979
4. Communication and education in animal-health 1980
5. Foot-and-mouth disease immunization programs in South America 1981
6. Creation of foot-and-mouth disease-free areas in South America..... 1982
7. Information systems and epidemiological surveillance of vesicular diseases 1983
8. Evaluation of the use of oil-adjuvanted vaccine in the foot-and-mouth
disease control programs in South America..... 1984
9. Planning, execution and evaluation of regional action for
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10. Economic and financial aspects of the foot-and-mouth disease control and
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11. Administrative & institutional analysis of the animal health programs in
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12. Endemic areas: identification, classification and treatment 1988
13. Foot-and-mouth disease endemic areas 1989
14. Ways to integrate sectors involved in foot-and-mouth disease
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15. Epidemiological surveillance systems with special reference to
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16. Local and zonal plans with mobilization of resources and community participation for the eradication of foot-and-mouth disease 1992
 17. Foot-and-mouth disease eradications, its technical and administrative bases and its consequences on the commercialization of animals and their products and by-products 1993
 18. The systems of attention to animal health vis-à-vis the changes in the role of the state and of the community..... 1994
 19. The systems of epidemiological surveillance and information, from the viewpoint of eradication and the new models of veterinary attention 1995
 20. Risk analysis in relation to the international commerce of animals and animal-origin products 1996
 21. Total sanitary control of the agricultural and livestock production chain 1997
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