

**SUPPLEMENTARY INFORMATION REQUIRED TO  
ASSESS THE RISK OF HOG CHOLERA FROM SWINE IN  
SONORA**

**NATIONAL VETERINARY SERVICES OF MEXICO**

**A. Organization and structure of Veterinary Services**

1. **National Veterinary Services**  
Please provide an organogram (or organizational chart) including numbers, positions and numbers of vacancies and describe the role of veterinarians in establishing national and state animal health policy.
2. **Sub-national Veterinary Services - emphasis on Sonora, Baja, Chihuahua and Sinaloa**  
Do the above listed states have a full time state veterinary service. Please provide organograms (or organizational charts) including numbers and positions.
3. **Other providers of Veterinary Services**  
Description of any linkage with other providers of veterinary services.

**B. Human and material resources**

1. Total numbers of veterinarians who are graduates from internationally-recognised veterinary schools which are registered accordingly in the WHO/FAO World Directory of Veterinary Schools (national and sub-national - Sonora)
2. Number of full time government veterinarians (national and sub-national)
3. Number of part-time government veterinarians (nat. and sub-nat.)
4. Number of private veterinarians authorised to perform official veterinary functions. Please provide a list of accredited veterinarians per function.
5. **ANIMAL HEALTH**  
Number of veterinarians associated with farm livestock sector on a majority time basis in a veterinary capacity, by geographical area (Show categories and numbers to differentiate staff involved in field service, laboratory, administration, import/export and other functions, as applicable)

6. **VETERINARY PUBLIC HEALTH**  
Number of veterinarians employed in food inspection on a majority time basis, by commodity
7. Numbers of technical assistants employed by the Veterinary Services:
  - involved with farm livestock
  - in food inspection
8. Total budgetary allocations to the Veterinary Services for the current and past two fiscal years (Sonora vs Mexico)
9. Summary of the forms of communication systems available to the veterinary services on a nation-wide and local area basis.
10. Summary of the numbers and distribution of official administrative centres of the veterinary services (nat. and sub-nat.) in the country.

### **C. Legislation**

1. Animal health and veterinary public health

Information is requested to verify the legal mandate to regulate AH and VPH issues on national and regional basis with specific reference to:

- animal and veterinary public health controls at national and regional (state) frontiers
- control of endemic diseases of livestock
- emergency powers for control of exotic disease outbreaks
- compensation provisions for animal owners affected by disease control measures
- registration and use of veterinary pharmaceutical products, including vaccines

A copy of current enabling legislation for federal animal health activities is requested. In addition, a copy of the following is requested:

- agreement approving the Hog Cholera eradication program, 1980
- Government decree declaring 58 counties of Northern Sonora free from Hog Cholera, 1983
- agreement constituting National Animal Health Emergency Vigil System, 1988
- Manual of Regulations and Procedures for the Hog Cholera Campaign, 1990

**D. Monitoring and audit programs**

1. Descriptive summary of any compliance unit which monitors the work of the Veterinary Services
2. Copies of official annual reports of the national (sub-national) Veterinary Services
3. Copies of reports of official reviews of the function or role of the Veterinary Services which have been conducted within the last three years.

## SWINE POPULATION

1. Date of most recent census of swine population
2. Most recent findings for national and Sonora state herds - number of animals, number of herds, geographic distribution
  - 2.1 National herd
    - commercial operations
    - small land holdings
  - 2.2 Sonora herd
    - commercial operations
    - small land holdings

SUBJECT	NUMBER OF PIGS	NUMBER OF HERDS	GEOGRAPHIC DISTRIBUTION
MARKETS			
SLAUGHTER FACILITIES ----- --- Municipal  Federal			
NATIONAL HERD ----- --- Commercial Operations  Small Land Operations			
SONORA HERD ----- ----Commercial Operations  Small Land Operations			

# ASSESSMENT OF ANIMAL HEALTH REGULATORY ACTIVITIES FOR SONORA

## SURVEILLANCE PROCEDURES

1. Describe standard surveillance procedures for swine diseases (i) in Sonora, and (ii) in the three adjacent Mexican states. (Disease agents tested for, number of samples submitted annually for the last 3 years and results)
2. If a serological screening for HC antibodies was to be conducted in Sonora by the accredited veterinarians, describe the method used and the statistical data obtained.
3. Is reporting of sick swine to state or national veterinary services mandatory? Explain procedure.
4. Describe the reporting method of vesicular conditions to the National Veterinary Services.
5. Describe the reporting method of suspicious and/or confirmed HC diagnoses to other countries. If Sonora was recognized a HC-free region, what process would be used to notify trading partners of an HC outbreak?
6. Describe the animal identification system in use in swine.

## IMPORT (for each issue, compare the national policy/program to that of the state of Sonora)

1. From what countries or parts of countries do you allow the importation of swine?
2. Is importation of swine, pork and pork products into Sonora from other states of Mexico permitted? If yes, please list the states and what is imported.
3. Have you recognized parts of countries to be free of HC? If yes, which one and on what basis?
4. Identify major classes of animal products being imported and source countries.
5. Describe your policies of importation with regard to HC status of the exporting country.
6. Describe the program with specific reference to inspection procedures at international air and marine ports and interstate airports.
7. What are the control measures for the entry of imported animals and animal products? (certification, inspection, quarantine, tests...) Provide examples of relevant documents and verification process used.

8. Provide statistics on border inspection activities along the border between Sonora and neighbouring Mexican states including the number of commercial importations inspected, the number of vehicles inspected, and the quantity of animals and animal products seized by your inspectors, with emphasis on Sonora points of entry.
9. Describe the program of importation of veterinary biologics, and provide details specifically on swine vaccine importations (quantity, country of origin).
10. Describe any policies/program relative to the disposal of food wastes from arriving international aircraft and ships.

## **EXPORT**

1. Animal exports during the last three years:
  - names of receiving countries
  - number of animals/shipments exported
  - number of shipments with certification problems
  - number of shipments rejected
2. Animal product exports during the last three years
  - names of receiving countries
  - number of shipments certified for export
  - number of shipments with certification problems
  - number of shipments rejected
3. Veterinary biologics exports during the last three years
  - names of receiving countries
  - number of shipments certified for export
  - number of shipments with certification problems
  - number of shipments rejected
4. Are there any countries which have recognized Sonora or other states in Mexico as being free of hog cholera? If yes, please provide a list.

## **VACCINATION**

1. When was hog cholera vaccine last officially or legally used in Sonora? How do you ensure it is no longer being used?
2. Where are the laboratories that currently produce hog cholera vaccine located?
3. What type of controls are applied in the laboratories?

4. In what states is vaccination for hog cholera permitted? Number of doses of vaccine used annually? How are vaccinated animals identified? Provide examples of certification and tag used.

## **CONTROL MEASURES**

1. If an outbreak should occur in Sonora, what procedures would be used for control? Compare them with the National hog cholera eradication program.
  - a. Are the procedures different for infected herds vs exposed herds?
  - b. Total depopulation with burial, burning, or rendering of infected herds?
  - c. Would slaughter with carcass salvage at abattoir be permitted (salvage of apparently healthy animals from infected herds or exposed herds)?
  - d. Can you describe the compensation program funded by animal organizations? How did it work in the past? What was the amount of money given to the farmers?
2. Is commercial garbage feeding to swine permitted? If so, what restrictions are imposed? Number of garbage feeding operations?
3. What restrictions are placed on domestic livestock exposed to communicable diseases?
4. How are investigations to determine the source of infection routinely practiced?
5. Are quarantines placed on premises and/or areas where a disease outbreak is suspected? If yes, define quarantine.
6. Describe normal animal movement/marketing patterns from swine breeding units to the abattoir, including use of auction markets, assembly yards, etc.

7. What are the controls on the movements of animals and animal products during an outbreak?
8. After depopulation of an area that was infected with HC, what methods are used to detect and prevent introducing infection through repopulation?
9. Is the administration of hog cholera serum permitted? If so, under what conditions? Who may administer?
10. Is the use of BVD vaccine permitted in swine?
11. What is the process for gathering information on disease outbreaks? (electronics, otherwise)

\*Please provide examples of documentation used in disease control activities.

### **DIAGNOSTIC LABORATORIES**

1. Elaborate on the diagnostic laboratory infrastructure. (Descriptive summary of the organizational structure and role of the government veterinary laboratory service, particularly its relevance to the field veterinary services)
2. What level of containment is required for diagnostic laboratories?
3. What specimen collections are routinely collected for HC diagnosis and how are they transported?
4. What diagnostic methods are used?
5. What reference laboratories are used to confirm diagnosis of HC?
5. For the last three years, list the number of samples (and sample types) received for hog cholera diagnosis from (i) Sonora, and (ii) nationally. Provide results.
7. What internal and external quality assurance program does Mexico use?
7. Do private laboratories receive samples for hog cholera testing? If so, describe accreditation process and reporting of results.

### **LAST OUTBREAK in all states which are contiguous with Sonora and Sinaloa**

1. What was the geographical distribution of the outbreak?
2. How many herds and number of animals were tested?

3. What test was used?
4. How many herds and number of animals of each species were found to be infected?
5. What was the source of infection?
6. What type of program was used to eradicate the disease?

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