

GLOBAL FMD CONTROL STRATEGY REPORT QUESTIONNAIRE (2015).

- **Country name:**
- **Point of Contact:**
 - **Name:**
 - **Contact information:**
- **Date:**

Introduction

FAO with OIE developed a fifteen-year strategy for the global control of FMD which was endorsed by over 100 countries at the global conference held in Bangkok in June 2012. The overall objective of the Global FMD Control Strategy is to contribute to poverty alleviation and improving the livelihoods in developing countries and to protect and further the global and regional trade in animals and animal products. The specific objective not only aims to reduce the burden of FMD on animal production in developing countries, but also in FMD-free countries. Reducing FMD at source in FMD-endemic countries is therefore a shared interest and should be considered a Global Public Good.

The strategy includes three components; (i) improving global FMD control, (ii) strengthening veterinary services and (iii) improving the prevention and control of other major diseases of livestock.

Tools of importance for FMD prevention and control are:

1. The FMD Progressive Control Pathway (PCP-FMD) and regional roadmaps
2. OIE standards, recognition of disease status and endorsement of control programmes
3. Diagnostic laboratories, reference laboratories/centres, regional and global networks
4. National, Provincial and local control plans and strategies
5. Vaccines and vaccination procedures including logistics
6. National, regional and international surveillance; epidemiology skills and networks

In order to monitor the progress of FMD control since the development of the global strategy, we kindly ask you to fill out the enclosed questionnaire while focusing on activities carried out since 2012.

Information gathered from this questionnaire will be formulated as a global report to be published and distributed to the FMD community electronically and hard copies.

The global report will elaborate on the following areas:

- FMD virus circulation and recent FMD reported events in 2013 and 2014.
- FMD control strategies used for implementation of control plans
- Suitability of control initiatives and challenges in their implementation
- International and regional investments supporting FMD control
- State of FMD research in 2013 and 2014

Instructions

X

X

X

x

Thank you very much in advance for your collaboration

The FAO FMD group

GENERAL INFORMATION:

1. Has your country identified a list of Priority Transboundary Animal Diseases (TAD)?

(Exclusive answers)

Yes, officially.	<input type="checkbox"/>
Yes, not officially	<input type="checkbox"/>
No	<input type="checkbox"/>
Not sure	<input type="checkbox"/>

If yes, list the 5 highest priority diseases:

1. _____
2. _____
3. _____
4. _____
5. _____

LIVESTOCK POPULATION:

2. Please, provide information on population of FMD-susceptible livestock and wild life in your country? *(Multiple answer, fill in the boxes)*

Domestic Species	Cattle	Buffalo	Sheep	Goat	Pigs
Number					
Census Year					

Other Domestic Species				
Number				
Census Year				

FMD susceptible Wild Life species		Approximate population number (if known)
Buffalo	<input type="checkbox"/> present <input type="checkbox"/> absent	
Antelope	<input type="checkbox"/> present <input type="checkbox"/> absent	
Deer	<input type="checkbox"/> present <input type="checkbox"/> absent	
Wild boar	<input type="checkbox"/> present <input type="checkbox"/> absent	
Feral pigs	<input type="checkbox"/> present <input type="checkbox"/> absent	
Other (specify)	<input type="checkbox"/> present <input type="checkbox"/> absent	

FARM REGISTER (check the square) (Exclusive answers):

3. Is there an official livestock establishment registration system in your country?

Yes ☐ No ☐ Partial: ☐ Please, specify the sector(s): _____

ANIMAL IDENTIFICATION:

4. Is there an official system of animal identification and registration?

a. Large Ruminants: Yes ☐
 No ☐
 Partial: ☐ Please, specify the sector(s): _____

b. Small Ruminants: Yes ☐
 No ☐
 Partial: ☐ Please, specify the sector(s): _____

c. Pigs: Yes ☐
 No ☐
 Partial: ☐ Please, specify the sector(s): _____

ANIMAL MOVEMENTS:

5. Is animal movement monitored? (*Exclusive answers*)
 Yes ☐ No ☐ Partially ☐

6. Are data routinely collected on the number, origin and destination of livestock traded? (*Exclusive answers*)
 Yes, all of them ☐ Yes, limited ☐ No ☐

FMD OUTBREAKS:

7. Number of FMD outbreaks detected in your country since 2012: (*An outbreak is defined as a FMD case in an epi-unit (farm, village, dip-tank location) with FMD clinical signs of FMD. It does not refer to the number of animals affected within an epi-unit.*)

Year	Number of FMD outbreaks detected	Serotype(s) involved (<i>if unknown, please indicate with 'unk'</i>)
2014 (to date)		
2013:		

2012		
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8. Is there a laboratory specialized in FMD diagnosis in your country? (*Exclusive answers*)

Yes ☐ No ☐ Not sure ☐

9. When an outbreak of FMD is notified, is an outbreak investigation conducted? (*Exclusive answers*)

Yes, routinely ☐
 Yes, often ☐
 Yes, sometimes ☐
 No ☐

If No, please specify the reasons: (*multiple choices*)

- Insufficient human resources ☐
- Lack equipment ☐
- Lack financial resources ☐

Other: _____

Would you need/want assistance to deal with outbreak investigation? Yes ☐ No ☐ Maybe ☐

10. What activities are undertaken during an outbreak investigation? *(multiple choices)*

Fill out for each line if the activity is undertaken and to what extent (sometimes, usually or no)

- a. Forward and backward tracing – attempting to identify routes of FMD virus transmission. *(exclusive answer)*

Usually

☐

Sometimes

☐

No

☐

Why?: _____

- b. Sampling for confirmation – FMD laboratory diagnosis

Usually

☐

Sometimes

☐

No

☐

- c. Followed by identification of serotype

Usually

☐

Sometimes

☐

No

☐

- d. Followed by sequencing of genotype

Usually

☐

Sometimes

☐

No

☐

- e. Are samples shipped to an International Reference Laboratory for further analysis?

Yes

☐

No

☐

Not sure

☐

11. What additional control measures are applied when an outbreak occurs in your country? *(select all that apply)(multiple answer)*

Animal movement restrictions

☐

Application of biosecurity measures

☐

Quarantine measures ☐

Emergency vaccination ☐

Other: _____

12. Has your country adopted legislation to enforce/support these measures? (*exclusive answer*)

Yes ☐ No ☐ Not sure ☐

13. Does your country have a written and government endorsed FMD Contingency Plan¹?

Yes ☐ No ☐ Not sure ☐

14. If yes, has your country implemented or exercised the FMD Contingency Plan within the last 12 months?

Yes ☐ No ☐ Not sure ☐

If yes, please specify:

15. Is the written FMD Contingency Plan available for our review?

Yes ☐ No ☐

¹Contingency plans are sets of well-structured and clearly-stated documents that describe policies, strategies and procedures for effective disease-control response to high-threat diseases, such as FMD.

IDENTIFICATION OF RISK FACTORS AND HOTSPOTS²:

16. Has your country determined the risk factors for FMD?

Yes ☐ No ☐ Not sure ☐

If yes, which year? _____;

Which risk factors have been identified? (*Please, list approx. 5*)

17. Has your country determined risk hotspots for FMD?

Yes ☐ No ☐ Not sure ☐

If yes, which year? _____;

² Risk factors are those management factors in animal production that increase the risk of introducing FMD infection and / or transmission of FMD. For example: trading cattle back and forward from animal markets is an important risk factor for both introduction and transmission of the FMD virus.

Risk factor is an epidemiological term, identified through statistical analysis.

Risk hotspots are defined as geographical areas, production sectors, age categories or practices conducted by people that pose a particular high risk of FMD transmission or that suffer a great impact from FMD infection. Risk hotspots are determined based on the collation of surveillance information from different sources such as value-chain analysis, impact assessment, serological studies, etc.

Which risk hotspots have been identified? *(Please, list approx. 5)*

FMD CONTROL:

18. Does your country have a written and government endorsed FMD control strategy?

Yes ☐ , which year was it endorsed? _____; No ☐ Not sure ☐

If yes, is this control plan developed along the lines of a Risk-Based Strategy?³

Yes ☐ Not Sure ☐ No ☐

If No, would you like assistance to develop such a plan? Yes ☐ No ☐ Not Sure ☐

19. Are you familiar with Progressive Control Pathway for FMD control (PCP-FMD)?

Yes ☐ No ☐

SOCIO-ECONOMIC IMPACT:

20. Has the socio-economic impact of FMD been studied in your country? *(exclusive)*

³ *Risk-based Control Plan is Control plan where measures are targeted to risk hotspots and based on their effectiveness at reducing the probability and impact of FMD entry and/or spread. Usually these will be identified through risk analysis).*

Yes ☐ No ☐ Not sure ☐

If yes, In which year was the study conducted?:_____;

Which of the following sectors were included? (*Multiple choices*)

- | | |
|----------------------------|--------------------------|
| a. Small holder | <input type="checkbox"/> |
| b. Dairy production | <input type="checkbox"/> |
| c. Beef production | <input type="checkbox"/> |
| d. Small ruminants | <input type="checkbox"/> |
| e. Pigs | <input type="checkbox"/> |
| f. Mixed livestock systems | <input type="checkbox"/> |
| g. Other | <input type="checkbox"/> |

Is the report available for our review? (*exclusive*)

Yes ☐ No ☐

If possible, point of contact name and email: _____

SEROSURVEILLANCE:

21. Has your country conducted NSP serological surveillance with the purpose of estimating the prevalence of FMD viral circulation? (*exclusive*)

Yes ☐ No ☐

If yes, which year(s)? _____;

Which attributes were included for the most recent survey? (*check appropriate boxes*)

Species					
Age		Large Ruminants	Small Ruminants	Pigs	Other:
	Under 2 years				
	2 years and above				
	Other				
Production system	Small holder				
	Dairy production				
	Beef production				
	Small ruminants				
	Pigs				
	Mixed Livestock System				
Regions/Areas	Others:				
	Selected area				
	Nationwide				

Is there a report available for our review? (*exclusive*)

Yes

No

☐

If possible, point of contact name and email: _____

22. Which proportion of animals tested NSP-Antibodies positive (overall results) (*exclusive*):

- a. less than 5%
- b. between 5% and 10%
- c. between 11 and 25%
- d. more than 25%
- e. not sure

A vertical scale for question 22. It consists of a series of small squares arranged in a column. The top square is filled, and the rest are empty. To the right of the squares is a dashed line.

23. Which proportion of epidemiological units (farms, herds, villages, kraals) had 1 or more NSP-Ab positive animals (*exclusive*):

- a. less than 5%
- b. between 5% and 10%
- c. between 11 and 25%
- d. more than 25%
- e. not sure

A vertical scale for question 23. It consists of a series of small squares arranged in a column. The top square is filled, and the rest are empty. To the right of the squares is a dashed line.

VACCINATION:

24. Is there a FMD national vaccination strategy endorsed by your government? (*exclusive*)

Yes ☐ No ☐

25. If yes, Please provide the information for the following species (*check appropriate boxes*)

a. Large Ruminants: (Cattle and Buffaloe)

i. Most recent implemented Year: _____

ii. Voluntary ☐ Compulsory ☐ (~~exclusive~~)

iii. A) Uniform vaccination – consistent protocol applied in all areas and Large Ruminant species
non-uniform) ☐

(choose only 1 – ie uniform or

B) Non-uniform vaccination – different programs that are best described as:

If the vaccine protocol is non-uniform, please choose all that apply below:

☐

- Zonal – geographic area of the country

Please explain: _____

- Sectorial – production system such as dairy, beef, etc

☐

Please explain: _____

- Targeted – applying vaccination specifically to certain species, age categories, locations with added risk of FMD infection, etc

☐

Please Explain: _____

☐

iv. Ring vaccination in response to a FMD outbreak

Other: _____

b. Small Ruminants: Sheep: ☐ Goats: ☐

i. Most recent implemented Year: _____ ☐

ii. Voluntary ☐ Compulsory ☐ (*exclusive*) ☐

iii. A) Uniform vaccination – consistent protocol applied in all areas and Small Ruminant species

B) Non-uniform vaccination – different programs that are best described as:

If the vaccine protocol is non-uniform, please choose all that apply below:

- Zonal – geographic area of the country ☐

Please explain: _____ ☐

- Sectorial – production system such as dairy, fattening, etc

Please explain: _____

- Targeted – applying vaccination specifically to certain species, age categories, locations with added risk of FMD infection, etc

Please explain: _____ ☐

iv. Ring vaccination in response to a FMD outbreak ☐

Other: _____

c. Pigs:

- i. Most recent implemented Year _____;
- ii. Voluntary ☐ Compulsory ☐ (*exclusive*)
- iii. A) Uniformity vaccination - consistent protocol applied in all areas

B) Non-uniform vaccination – different programs that are best described as:

If the vaccine protocol is non-uniform, please choose all that apply below:

- Zonal – geographic area of the country

☐☐

Please explain: _____

- Sectorial – production system such as intensive, etc

Please explain: _____

- Targeted – applying vaccination specifically to certain species, age categories, locations with added risk of FMD infection, etc

☐

Please explain: _____

- iv. Ring vaccination in response to a FMD outbreak

Other: _____

d. Others: _____

26. Indicate the Vaccine Name, Supplier, Species targeted and Serotypes (*if unknown, please indicate with ‘?’*):

Vaccine name	Supplier	Species in which vaccine is used	Serotypes

27. Number of doses applied in 2013 and 2014 (*fill in the table below*)

	2013	2014
Large Ruminants		
Small Ruminants		
Pigs		
Other		

28. Percentage of susceptible animals vaccinated by species in 2013 and 2014 (*please, complete the table below*)

	2013	2014

Large Ruminants

Small Ruminants

Pigs

Other

29. Does the owner contribute to cover the costs of vaccination? (*exclusive*)

- a. Always: ☐
- b. Certain Sectors: (*please explain*) _____
- c. When voluntary vaccination: ☐
- d. Never: ☐

If yes, % of cost covered by the owner (*exclusive*)

- a. 100% ☐
- b. 50%-<100% ☐
- c. <50% ☐

30. Was vaccine quality assessed in 2013 and /or 2014? (*exclusive*)

Yes ☐ No ☐ Not Sure ☐

If yes:

a. Who assessed the Vaccine Quality (*exclusive*):

- i. The vaccine producer ☐
- ii. An independent Vaccine Quality control centre/laboratory on behalf of the Veterinary Services
- iii. Other : ☐ _____

b. Which of the following quality indicators were assessed? (*check the year where they were assessed, more than one is possible*)

i. Vaccine matching: vaccine virus tested against with field strains at least once

2013 ☐ 2014 ☐ (*multiple answer*)

Which Laboratory did the test? _____

ii. Vaccine potency: was the PD₅₀ determined? (*if yes, check the year when it was assessed*) (*multiple answer*)

2013 ☐ 2014 ☐

iii. Immune response after vaccination (SP-Antibody response 30 days (or more) after vaccination) (*multiple answer*)

2013 ☐ 2014 ☐

iv. Vaccine effectiveness studies: field study comparing occurrence of clinical FMD in vaccinated animals compared with non-vaccinated animals. (*multiple answer*)

2013 ☐ 2014 ☐

v. Is the Vaccine Cold Chain monitored and assessed?

☐

2013 ☐ 2014

If yes, How was it monitored and assessed? _____

EPIDEMIOLOGY AND LABORATORY NETWORKS:

31. Does your country belong to any Epidemiology Network which deals with FMD control? (*exclusive*)

Yes ☐ No ☐

If yes, please provide the name of the network: _____

32. Does your country belong to any Laboratory Network which deals with FMD control? (*exclusive*)

Yes ☐ No ☐

If yes, please provide the name of the network: _____

ACTIVITIES TO COMBINE FMD AND OTHER DISEASES CONTROL:

33. Does your country perform any activity which combines FMD surveillance and/or control with activities related to other diseases? (i.e, use of serum samples to test for more than one disease including FMD, awareness campaign targeting multiple diseases, combination of vaccination strategies..) (*exclusive*):

Yes ☐ No ☐

If yes, please indicate each activity and diseases addressed in each one:

CHALLENGES:

34. Please indicate the major challenges/difficulties your country is facing in controlling/eliminating FMD? *(Please, Rank the 5 most significant challenges)*

1. _____
2. _____
3. _____
4. _____
5. _____

35. Please indicate which of the following areas your country desires technical assistance and capacity building to improve your FMD control? *(Please, Rank the 5 top priorities from the list below)*

1. Epidemiology training ☐
2. Laboratory training ☐
3. Development of FMD control strategy ☐
4. Development of laboratory capacity ☐
5. Regional coordination ☐
6. Training on surveillance ☐
7. Training on Risk Analysis ☐
8. Socio-Economic impact studies ☐

9. Development/implementation of legislation and Regulation ☐
10. Management of FMD emergencies ☐
11. Animal Identification ☐
12. Movement Control ☐
13. Others: _____

GLOBAL FMD PORTFOLIO:

36. **Has your country participated in any specific activities, programs or projects that involve FMD surveillance and/or control in the last 3 years?** *(please list as appropriate)*

(please, if more than one activity, complete this part of questionnaire once per activity and submit all of them)

Yes ☐ No ☐

If yes;

37. What is the Geographic area of implementation? *(exclusive)*

- a. Global ☐
- b. Regional ☐
- c. National ☐

38. Project status *(exclusive:*

- a. Closed ☐
- b. On-going ☐
- c. Pipeline ☐

39. Budget:

a. Amount (USD)_____

b. Source of funds (*multiple*)

i. National/Regional Budget

☐

ii. External Support

☐

Donors:_____

40. Title of the project: _____

41. Objectives: (*exclusive*)

a. Emergency Support (Immediate-short term)

☐

b. Development project (medium to long term)

☐

i. Gradually improve control in the country (infected) towards an OIE recognized status.

ii. Maintain the ☐tus free (country or zone) with vaccination

☐

iii. Maintain the status free (country or zone) without vaccination

☐

42. Activities (*multiple*):

a. Epidemiology

☐

b. Prevention

☐

c. Early Detection

☐

d. Emergency Response

☐

e. Vaccination

☐

f. Laboratory Capacity

☐

g. Compensation

☐

h. Veterinary Services Capacity

☐☐

- i. Communication
- j. Global/Regional Coordination ☐
- k. Research ☐
- l. Others _____

43. Tools used: *(multiple)*

- a. FMD PCP ☐
- b. OIE Performance of Veterinary Services Pathway (PVS) ☐
- c. Others _____

POINT OF CONTACT:

Please, complete the person in contact for each which applied

- FMD PCP specialist:

Name: _____

eMail: _____

- FMD Laboratory specialist

Name: _____

eMail: _____

- FMD Epidemiology specialist

Name: _____

eMail: _____