





Syria

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Large areas of the country are covered by semi-

At administrative level Syria is divided into 14

the contribution from livestock production to the

total agriculture production value is more than

All the veterinary services are offered by the

government to farmers free of charge.

- 11 samples from dairy cattle were sent to

- 24 susceptible samples were tested in the

central lab in Damascus -by Ag Detection in 2008, all of these samples were negative.

In each province there is a department for



provinces

animal health services

Pirbright Lab in 2002.







Introduction

- · Syria has an important location in the middle
- It is surrounded by Iraq from the east, Jordan and Palestine from the south Lebanon and Mediterranean sea from the west and Turkey from the north.
- Syrian population according to the 2006 statistic about 19 million inhapetant
- The total area of Syria is 186.000 sq km.

















Current FMD Situation and Trends Country - Livestock

- FMD cases have occurred in February 2002 in a Governmental dairy farm which is around 10 Km from Damascus city.
- Strict quarantine procedures were applied on the farm and disposed of all the things connected with the infected animals even the milk.
- O India virus was detected as a subtype in that outbreak.
- Veterinary service's immediately implemented an emergency vaccination campaign around the outbreak area



















Tested Samples

Year	Number	Sheep	Cattle	Result	Test
2006	67	16	51	negative	Ag Det
2007	72	19	53	negative	Ag Det
2008	24	7	17	negative	Ag Det



Control Strategies

- In Syria we vaccinate cattle twice a year ,sheep and goats annually
- The vaccine is provided exclusively by government, free of charges and covers all areas in Syria.
- Quarantine procedures are performed on imported animals.
- All of susceptible samples are rapidly sent to the national central lab.
- A national emergency plan regarding FMD has been developed















Vaccination

- Vaccine component: Trivalent vaccine A Iran 96, O Indian 53 /97 and Asia 1.
- The time of vaccination for cattle (February -March) and (October – November).

 • For sheep and goat (October – November).
- · The vaccination covers all animals of different
- We import FMD vaccine from different companies by announcing tenders and the main suppliers for FMD vaccine are : Merial, Bayer and Intervet.











available



diagnosis capacity.



Vaccine Quality Control

Vaccine quality is controlled before applying it in the field at the International Reference Lab such as Pirbright Lab.

Monitoring the application of the vaccination in the field through:

Laboratory In Syria there are 14 vet-labs which are located

in the provinces, three of them have the FMD

The national lab which is permitted to work with

FMD is the central veterinary lab at DoAH, it has

3 unites: Serology, Cell Culture and PCR, and

Epidemiology Unit

Reporting system (monthly, semester, 6 monthly, annual and emergent reports). The information are provided from village level to region and province then to central

Surveillance is made according to health situation in cooperation with the central lab. by using statistical programs as Epicalc 2000.

Carrying out sera-monitoring survey after vaccination if the diagnostic materials are



- · Field visits during vaccine campaign and visiting some served farms to insure that the animals have been vaccinated.
- · collecting the used vaccines bottles.
- Reporting system (all participants in the vaccine campaign have to provide the Directorate of Animal Health with a list contains number of vaccinated animals and names of served farmers, villages ,...)















FMD antigen detection ELISA.FMD antibody detection ELISA

Classic and Real Time PCR test.

carries out the following tests: - 3 ABC FMD ELISA.

- Viral isolation.

· Active surveillance. Passive surveillance.





Laboratory Staff

Lab	Vet.	Technical	Worker
Central lab.	18	67	6
Central Viral lab.	5	6	1
Provinces lab.	87	113	00
Provinces viral lab.	20	25	28



















Offered Information by **Epidemiology Unit**

- · Census of (Animals, Vaccination, Villages, Regions and Provinces, Farmers) according to the geographical distribution
- Local and International health situation information by using (WAHID, WAHIS, FAO reports...).
- · 2 vets, 8 technicians work in the unit.











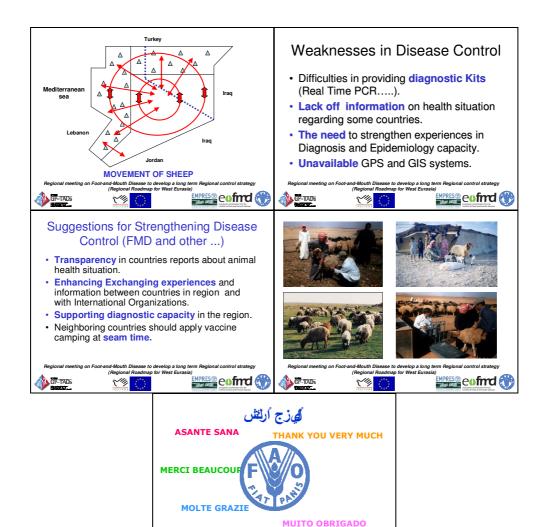






Border and Movement Control

- In 2007, 23879 fattening bulls imported from (Uruguay, Romania, Moldavia) and 81749 sheep from (Uruguay, Moldavia).
- Syria imports live animals from countries free of $\ensuremath{\mathsf{FMD}}.$
- Strict precaution procedures at the border to prevent illegal movement of animals and animals products.
- Disinfection of tracks, cars,....at borders.



MUCHAS GRACIAS...!

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