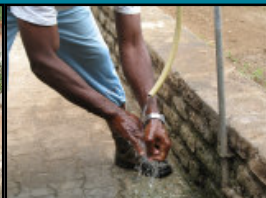




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Communiqué de Presse
MBOU

FVR : current situation in Mayotte



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Mayotte, endemic zone?





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Epidemiological situation in 2008

- **1. targeted studies – March 2008:**
 - In North-West region (M'Tsangamougi), **AND**
 - In goats introduced without any autorisation
 - **Results**
 - 52 cattle tested coming from 7 herds (sampled in November 2007)
 - 12 positives, confirmed by Pasteur and 3 Ig M positive,
 - That is an apparent prévalence of 25 %
 - 23 goats tested coming from uncontrolled trade
 - 1 positive
- ⇒ **Confirmation of FVR virus presence in Mayotte,**
⇒ **Introduction from neighbored islands suspected**

1. targeted study– N-W region

- **Complementary studies – April 2008**
 - Retest zebras found negative in March 2008
 - One **seroconversion** was identified out of 18 negative zebras retested
 - + 1 goat holding
 - 12 goats from one herd, 9 were positives
 - 4 other cattle herds
 - 6 uncontrolled introductions
- ⇒ At all, 29 cattle were positives out of 79 tested in april 2008 (37 % - 95%CI [26%;47%]).
- ⇒ 4 goats were positives out of 29 from uncontrolled trade and 2 with IgM (14%).
- ⇒ Confirmation of a recent **viral circulation.**



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Epidemiological situation 2008

2. Retrospective survey



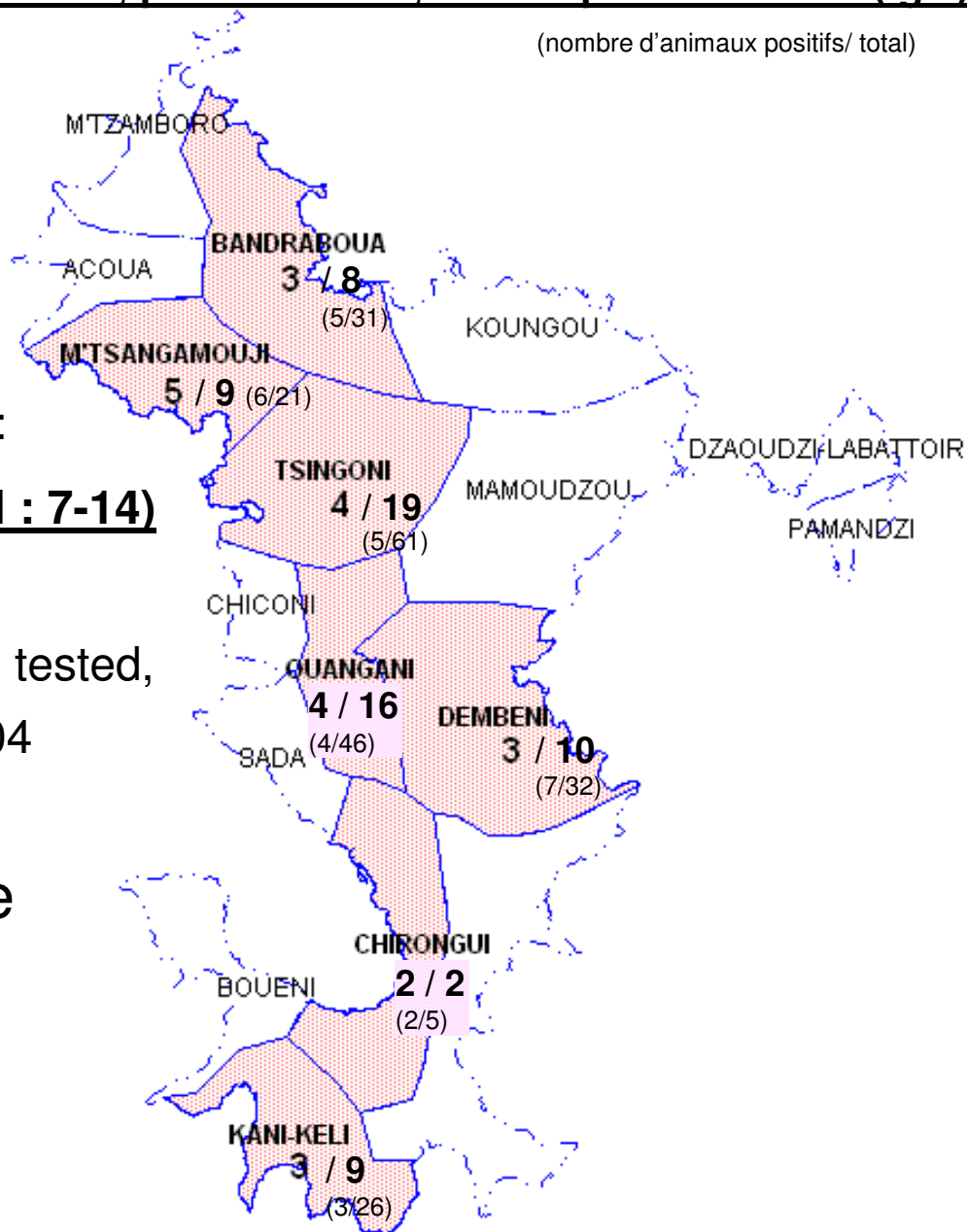
- Sampling :
 - 2007-2008 « zebus » serotheque from lab
 - Animal selection
 - Cattle sampled from June 2007 and May 2008
- Results
 - 301 cattle tested from 104 herds
 - 14 towns tested
 - ⇒ Viral presence (since when?) in the whole island



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Distribution, per commune, of FVR positive herds (IgG)

(nombre d'animaux positifs/ total)



Results of the retrospective study :

- 32 positives, that is **11 % (95CI : 7-14)**
- distributed :
 - ✓ in 7 out of 14 communes tested,
 - ✓ That is 24 herds out of 104 tested.

⇒ Viral Circulation at the island scale



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Epidemiological situation in 2008

3. Towards a sentinel herds surveillance – June 2008



- 13 goat herds tested
 - Herd size from 4 to 35 (mean : 21)
- = 272 goats tested
 - Only 5 herds totally negatives
 - Intra Prevalence : 62 % (95CI : 35% - 88%)
- Herd prevalence from 6 to 42 %
 - ⇒ Choice of 5 sentinel herds
 - ⇒ Sampling every 2 months
 - ⇒ All **negative** until now (waiting for December 2008 samples results)



FVR positive herd distribution in MAYOTTE

(based on 104 cattle herd May 2008 & 13 goat herds in June 2008)





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July 2008 : one clinical case confirmed (sheep)



- The first FVR case was notified to OIE in July 2008:
 - One abortion in an ewe
 - in a herd with 13 sheep
 - RT-PCR positive
 - Until now, no seroconversion in the sentinel herd located just next.
- Human Health:
 - 11 cases, 10 with clinical signs detected in 2008





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4. FVR history in Mayotte



- 2004 - 2005 serotheque sampling
 - « zebus » sampled during the annual brucellosis prophylactic campaign
 - 130 animals tested per year
- Results – analyses in progress
 - The first elements show few animals were already ELISA-positive in 2004 & 2005 (the exact number has to be confirmed).



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Surveillance strategy for 2009



1. Serological prevalence Study– in progress:

- Sampling
 - geographical representative (5 zones)
 - Known herds (about 150 professional farmers)
- Objectives :
 - Estimation of prevalence level
 - Choice of new sentinel herds

2. Active surveillance– More sentinel herds

- 30 zebus herds
- 4 goat herds
- 2 sheep herds

3. Reinforced awareness, especially on abortions

- Objective :
 - Improve passive surveillance, especially in sheep

Reinforced collaborations



- **Formalize a surveillance network**
 - Conception & animation by a civil volunteer CIRAD
 - epidemiological bulletins
 - Field actors training (specially farmers)
 - Analyses will be done in Mayotte (Vet lab - LVAD)
- **Strong partnership with the 'cellule de veille sanitaire' (Human)**
 - Regular meetings
 - Active surveillance focused on « dengue-like »
 - One special lab fighting against vectors (mosquitos)
 - Entomological Surveillance
 - Targeted Anti-vectors Protocols
 - Joint Communication Vet Service / Human Health Services





Merci de votre attention
Thanks for your attention