



MINISTÈRE
DE L'AGRICULTURE
DE L'AGROALIMENTAIRE
ET DE LA FORÊT

Situation of France regarding BTV 8

8th october 2015

A. Fediaevsky, MAAAF/DGAL/SDSPA/BSA



French situation in August 2015

- **Official statut**

- Mainland France is free of BTV since december 2012
- Corsica under restriction zone due to BTV1 and historically for 1, 2, 4, 8 and 16 with no circulation since may 2014, third vaccination campaign in preparation

- **Ministrial act 22/7/11** : targets the detection and control of introduction of exotic serotype

- vaccination forbidden except in Corsica where it is compulsory
- suspect farms : restrictions of movements and investigations
- infected farms : restriction of movements, released 60 days after compulsory vaccination,
- restricted zones of 20, 100 and 150 km radius according EU legislation



Recent surveillance results

- Clinical surveillance to detect introduction of exotic serotype or reappearance of serotype that has circulated : PCR by NRL
- Suspicions detected, all over France, in 2014, 108 Bv+78 small ruminants + 1 roe deer, in 2015, ~ 20 suspicions : ALL NEGATIVE + 2 alerts linked with introduction of animals from BTV4 restricted areas,
- Active surveillance in bovine : targeted prevalence of 20 %, sampling in winter on cattle for serological analyses, ~1150 tests / year
- About 7 % of seropositive results, spread all over France, all negative in PCR → history of vaccination or old animals born before 2011.
- 2012/13 : Surveys in 8 sites of wild ruminants : ~ 5 % of seropositive results all negative in PCR



History of index case

- Farm with 209 sheep and 145 cattle
- 1 ram (5 years) with clinical signs appeared the 21st of August
- The vet sent the blood sample to an authorized lab on the 27/08
- Results obtained by this laboratory (RT-PCR) :
 - Unspecific BTV = Pos (Ct = 25)
 - BTV-1 = Neg
 - BTV-8 = Pos (Ct: 26)



→ Sample sent to the NRL for confirmation (Anses Maisons Alfort, S. Zientara) + restriction measures in the farm + investigations



Immediate surveillance

- Testing of other animals on the farm (no clinical signs) :
5 sheep PCR positive - 27 cattle PCR positive
- Sampling of all herds in the 2km area (17) : All herds
with at least one positive animal, prevalence intra herd 5
to 12 % no clinical signs

**11/9 : isolation of BTV 8 and confirmation of viral
circulation**

→ adoption of national measures and notifications





MINISTÈRE
DE L'AGRICULTURE
DE L'AGROALIMENTAIRE
ET DE LA FORÊT

Passive and opportunistic surveillance

- Passive surveillance : national awareness enhanced by farmers and vet organisations →
- Passive surveillance : 143 suspicions since 11/9 from 46 county
- 10 confirmed cases (including index case) in 4 départements from the same area
- Bovine : 7/90 – Small ruminants : 3/53
- Very few clinical signs in infected herds
- Testing of animals in large exhibitions
- Animals positive from herds in 2 département close to index case, no positive beyond

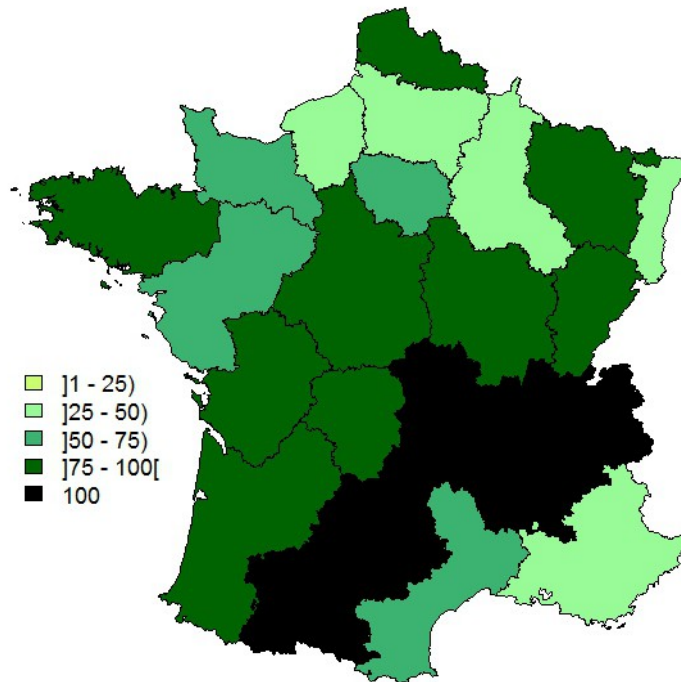


Active surveillance

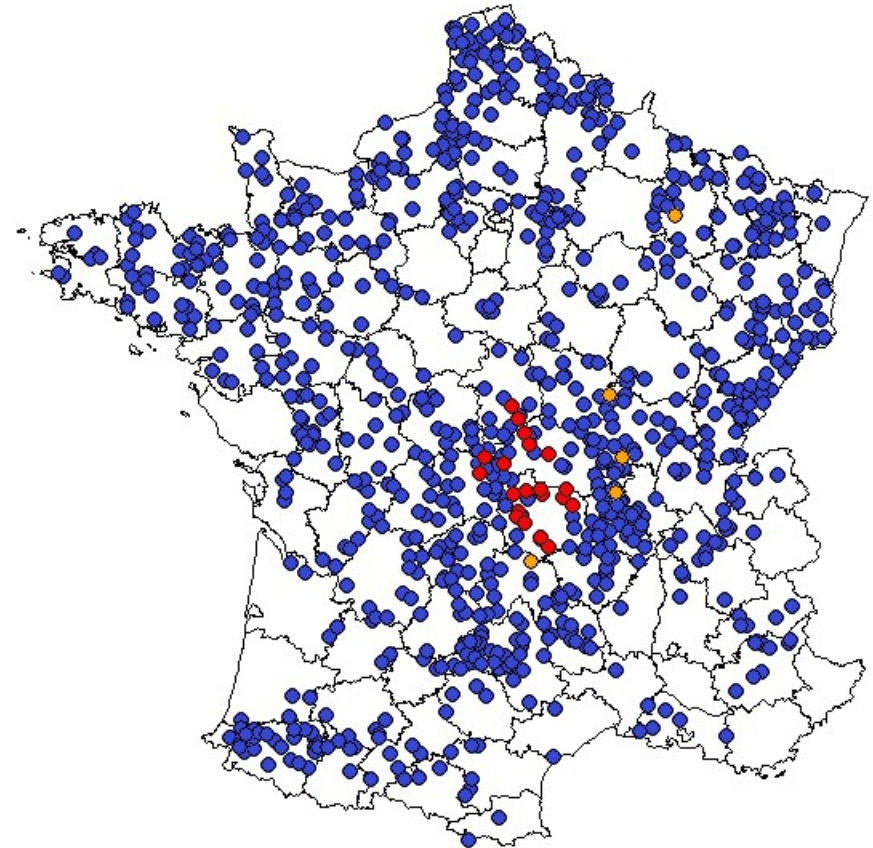
- Aim : to detect the possible spread of the infection → National protocol designed with Anses and Cirad
 - 60 herds sampled per regions (target inter-herd prevalence = 5%)
 - 30 sample per herd (assumption intra-herd prevalence = 10%)
 - Analyses with PCR
 - Random sampling
- Sampling of animals from the risk areas and present in large exhibitions



Results of active surveillance



77 % achivement to date
Sampling done,
Analysis on going



Red : confirmed cases
Orange : suspicion



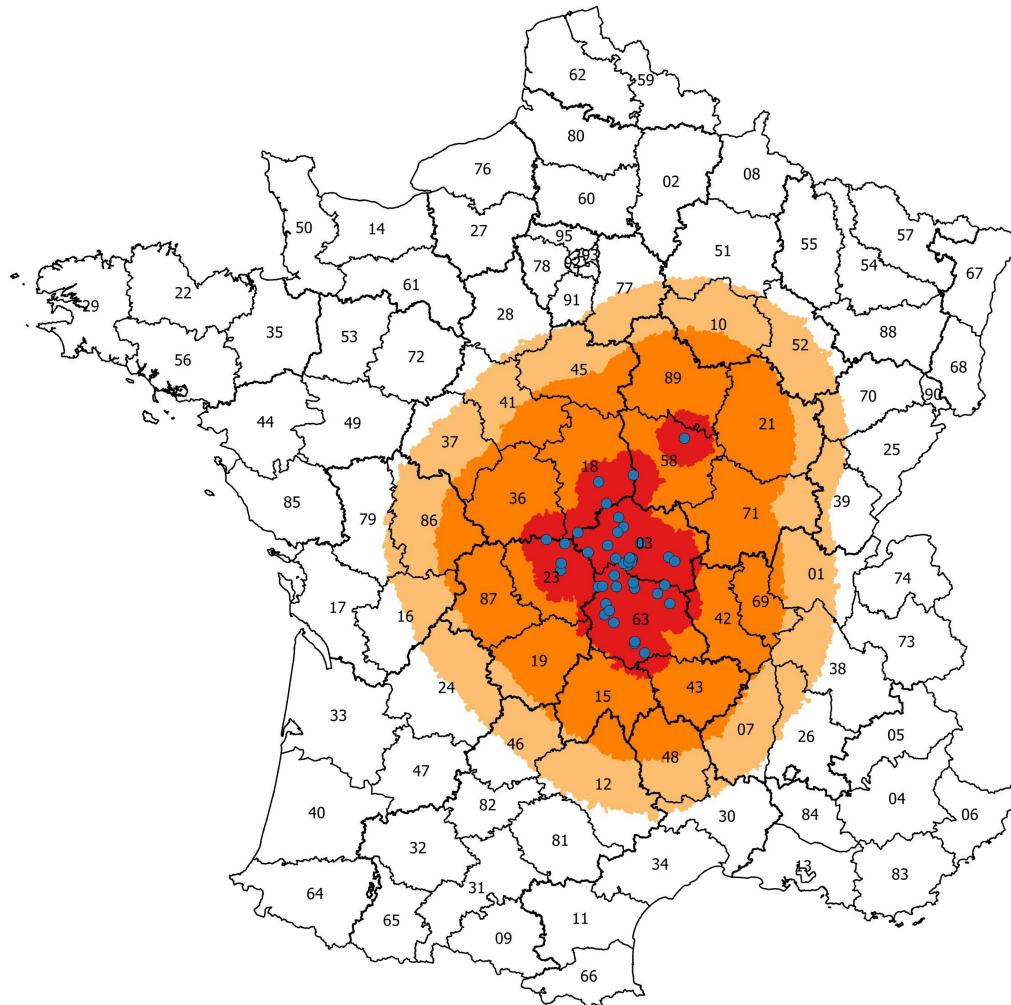
Interpretation of results

- Full typing of virus still on going, at least 95%, full homology of the 2007 strain
- Very few clinical signs in all species
- Apparently one large and central area is infected (to be confirmed with missing results)

Need for scientific assessment of the origin of the problem



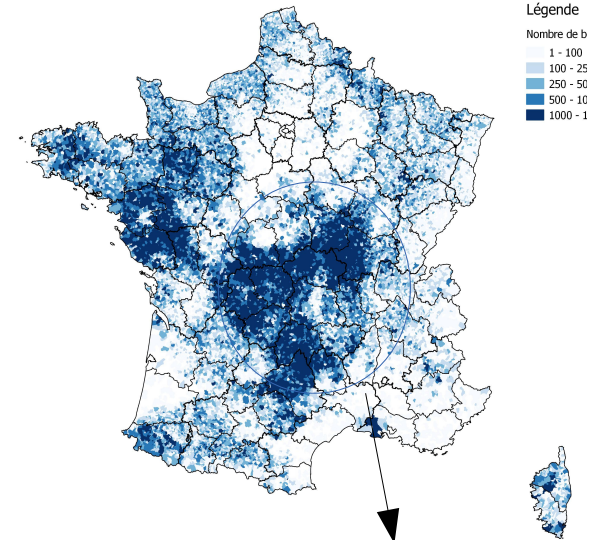
Measures adopted



Légende

- Foyers confirmés de FCO
- Périumètre interdit
- Zone de protection
- Zone de surveillance

Beef cattle production



12 m bovine
« Calving area »

3 Zones adapted according to obention of new results until completion of national surveillance and adoption of a general strategy (mi october)





MINISTÈRE
DE L'AGRICULTURE
DE L'AGROALIMENTAIRE
ET DE LA FORÊT

National movements of animals

- Initially very strict restriction, only exemption being immediate slaughtering
- Exemptions introduced for :
 - Movements within Interdiction Area and outside Interdiction Area to Protection zone with desinsectisation 14 days and PCR
 - Movements of animals under 70 days old to closed fattening units : desinsectisation of animals, transports and housings
 - Breeders to testing centers : desinsectisation 14 days and PCR



Movements of animals abroad

- Testing of animals that left the restricted areas 30 days before the area was defined
- Only immediate slaughtering from restricted areas
- Protocols for animals from restricted areas in discussion with Italy and existing protocol with Spain updated and to be reviewed in November





MINISTÈRE
DE L'AGRICULTURE
DE L'AGROALIMENTAIRE
ET DE LA FORÊT

Vaccination

- MAAAF purchased in emergency procedure the available doses from Merial : 1,345 million doses + 900 000 mid october + 55 000 from Calier → capacity to vaccinate 1,1 ruminants + 55 000 ovine
- Not enough doses to have sanitary policy to control the situation → mitigation of the consequences
- Priority : herds with confirmed disease, animals participating in genetic selection schemes, animals aimed at moving out of the area (mostly abroad)
- Long period of time to get more vaccine
- And the bank of antigens will be delivered next week for BTV 1 and 4....



Perspective

- The national strategy (restriction areas, vaccination, vector control/surveillance) will be reviewed next week after completion of the active surveillance programme and discussion with the stakeholders

Thank you for your attention

