

MINISTERIO  
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# TRANS-PLACENTAL TRANSMISSION FIELD TRIAL OF BTV-1 IN SPAIN



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Luis José Romero  
Epidemiology Unit  
Subdirectorato General for Animal Health



## PROBLEMS DETECTED IN THE FIELD TRIAL

- Cattle situated in the Serotype 1 affected area in 2007 was vaccinated with BTV-4 inactivated vaccine: serum samples must be tested by virusneutralization against BTV-4 and BTV-1 (not ELISA)
- Most of the dairy cattle in the area was vaccinated with BTV-1 inactivated vaccine. Only outdoor fattening cattle was not vaccinated yet: hard to be managed

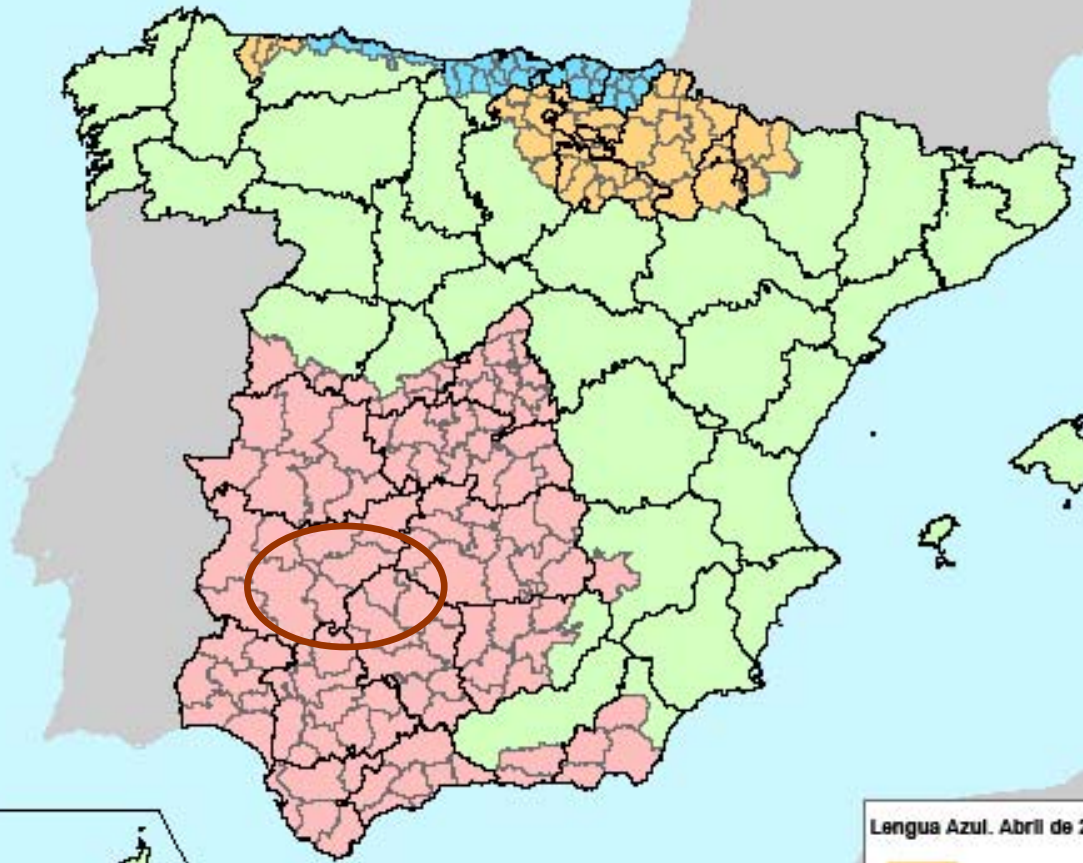


## TRANS-PLACENTAL TRANSMISSION PROTOCOL

1. Farms must be located in BTV-1 seasonally free restriction zone were large BTV-1 virus circulation was detected in autumn 2007 (Andalucía and Extremadura)
2. Blood ad serum samples are collected from breeders and calfs
3. Sera are tested by VN (1 and 4) and blood by RT-PCR
4. Weekly blood samples are collected when calf result positive by RT-PCR



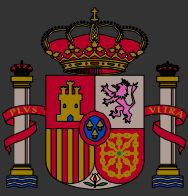
Ministerio de Agricultura, Pesca y Alimentación



Lengua Azul. Abril de 2008

- Zona Restringida S-1
- Zona Restringida S-1-4
- Zona Restringida S-1-8
- Zona Libre





## TRANS-PLACENTAL TRANSMISSION RESULTS

### Andalucía: Samples from 17 farms

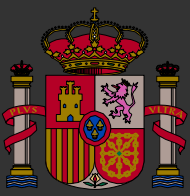
	Total	Pos. RT-PCR st. 1	Pos. Seroneutr. 1
Dams	88	39	56*
Calves	93	0	49**

\* 1 sample contaminated and 13 without result

\*\* 4 samples contaminated and 13 without results

### Extremadura:

**Serological results not available yet**  
**All calves resulted RT-PCR negative**



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**THANK YOU FOR  
YOUR ATTENTION**