



Federal Agency for the Safety of the Food Chain

# **Bovine Health Situation in Belgium**

25 May 2016



# BOVINE ANIMAL HEALTH STATUS

BOVINE DISEASE	OIE-LIST	NOTIFICATION	EU LEGISLATION	NATIONAL LEGISLATION (RD)	SANITARY STATUS
FOOT & MOUTH DISEASE	X	X	Directive 2003/85	Royal degree 10/10/2005	<u>OFFICIAL FREE STATUS</u>
LUMPY SKIN DISEASE	X	X	Directive 1992/119	Royal degree 03/10/1997	
RIFT VALEY FEVER	X	X			
PESTE DES PETITS RUMINANTES	X	X			
VESICULAR STOMATITIS	X	X			
EPIZOOTIC HAEMORRHAGIC DISEASE IN DEER	X	X			
RINDERPEST	X	X			
CONTAGIEUS BOVINE PLEUROPNEUMONIE	X	X			

# BOVINE ANIMAL HEALTH STATUS

BOVINE DISEASE	OIE-LIST	NOTIFICATION	EU LEGISLATION	NATIONAL LEGISLATION (RD)	SANITARY STATUS
<b>BRUCELLOSIS</b>	X	X	Directive 1964/432	Royal degree 06/12/1978	<u>OFFICIAL FREE STATUS</u>
<b>TUBERCULOSIS</b>	X	X	Directive 1964/432	Royal degree 17/10/2002	
<b>ENZOÖTIC BOVINE LEUKOSIS</b>	X	X	Directive 1964/432	Royal degree 16/12/1991	
<b>BOVINE SPONGIFORM ENCEPHALOPATHY (BSE)</b>	X	X	Directive 999/2001	Royal degree 17/03/1997	<u>NEGLECTIBLE RISK (2012)</u>
<b>BLUETONGUE</b>	X	X	Directive 2000/75	Royal degree 07/05/2008	<u>FREE STATUS (2012)</u>
<b>IBR (infectious bovine rhinotracheitis)</b>	O	X	Decision 2004/558	Royal degree 22/11/2006	<u>EU approved program</u>
<b>BVD (bovine viral diarrhea)</b>	O	X		Royal degree 18/06/2014	<u>National program</u>

✓ **FOOT & MOUTH DISEASE (FMD)**

- Non-vaccination policy since 1990
- Notification of disease or suspicion is compulsory
- General surveillance measures in place
- Monitored at trade of animals (import – export)



**OFFICIAL**  
**FREE**  
**STATUS**

- ✓ **LUMPY SKIN DISEASE**
  - ✓ **RIFT VALLEY FEVER**
  - ✓ **PESTE DES PETITS RUMINANTS**
  - ✓ **VESICULAR STOMATITIS**
  - ✓ **EPIZOOTIC HAEMORRHAGIC DISEASE IN DEER**
  - ✓ **CONTAGIOUS BOVINE PLEUROPNEUMONIA**
  - ✓ **RINDERPEST**
- 
- No cases reported in Belgium
  - Notification of disease or suspicion is compulsory
  - General surveillance measures in place



# OFFICIAL FREE STATUS

## ✓ BRUCELLOSIS

- Vaccination prohibited since 1992
- Official free status obtained in 2003
- Monitored by at random sampling of bovine herds, trade of bovines and abortions
- Notification of disease or suspicion is compulsory

YEAR	Tests:	individual serology	pools of bulk milk	abortions
2006		500.766	73.482	3.535
2007		563.948	70.067	3.926
2008		544.135	65.572	4.184
2009		452.016	60.031	3.504
2010		42.378	0	6.650
2011		47.647	9.460	8.164
2012		268.336	27.603	11.234
2013		103.578	17.509	9.506
2014		96.960	17.873	10.577
2015		44.560	16.908	11.884



✓ **BRUCELLOSIS**

- No outbreaks between 2003 – 2009
- Outbreaks in 2010 – 2012 – 2013

	<b>Outbreaks Initial outbreak</b>	<b>Outbreaks related outbreak (contacts)</b>
<b>2010</b>	1 (B. abortus biovar 3)	
<b>2012</b>	1 (B. abortus biovar 3)	4 (B. abortus biovar 3)
	1 (B. suis biovar 2)	
<b>2013</b>		1 (B. abortus biovar 3)

- **intensified surveillance imposed:**
- FOLLOW UP of outbreaks and contact herds
  - yearly sampling – 3 years successively



# OFFICIAL FREE STATUS

## ✓ **BOVINE TUBERCULOSIS**

- Official free status obtained in 2003
- Notification of disease or suspicion is compulsory
- Monitored by sampling of animals at purchase (skin tests) and post mortem examination in slaughterhouse

## • OUTBREAKS:

Year	2007	2008	2009	2010	2011	2012	2013	2014	2015
#	5	12	2	0	1	1	6	0	3

- intensified surveillance imposed:
  - FOLLOW UP of outbreak and contact herds
    - skin test: 5 years



# OFFICIAL FREE STATUS

## ✓ ENZOOTIC BOVINE LEUKOSIS

- Official free status obtained in 2003
- Notification of disease or suspicion is compulsory
- Monitored by at random sampling

	Number of samples
2007	585.023
2008	537.146
2009	445.618
2010	27.740
2011	27.963
2012	29.635
2013	75.018
2014	18.767
2015	21.130



# BRUCELLOSIS TUBERCULOSIS ENZOOTIC LEUKOSIS

## Monitoring plan

- Monitoring plan (corner stones) 1980-2010: all farms
  - Sampling bovines
    - on arrival on farm (at purchase)
  - Sampling meat type bovines
    - Blood sampling
      - Winter programme: sampling at housing period
  - Sampling milk type bovines
    - Milk sampling
- **Since 2010: modified monitoring plan**



# BRUCELLOSIS TUBERCULOSIS ENZOOTIC LEUKOSIS

## Monitoring plan

- **Since 2010: modified monitoring plan**
  - Based on risk analysis
    - **Abortion protocol**
    - **Winter programme**
    - **Purchase protocol**
- **TRADE: Intra-community trade from Member States at risk**
  - Based Decision 2003/467/EC = list of **free** (regions or) Member States
  - Member State **not on the list** = “non free” or “at risk”



# BRUCELLOSIS TUBERCULOSIS ENZOOTIC LEUKOSIS

## Monitoring plan

- **Abortion protocol**
  - Blood sampling aborted cows + research on foetus, placenta,..
    - Brucellosis and several other pathogens causing abortion
- **Purchase protocol**
  - Tuberculosis skin test: **all** bovines purchased (national & trade)
  - Brucellosis & Leucosis:
    - blood sampling: bovines purchased from Member States “at risk”
- **Winter program**
  - Follow up during 3 successive years all animals from MS “at risk”
  - Follow up of outbreaks and surrounding farms
  - Ad random selection
    - (400 farms / 40 animals)
  - Ad random selection on large farms with “0” reporting for abortion
    - (200 farms / 20 animals)



## ✓ BOVINE SPONGIFORM ENCEPHALOPATHY (BSE)

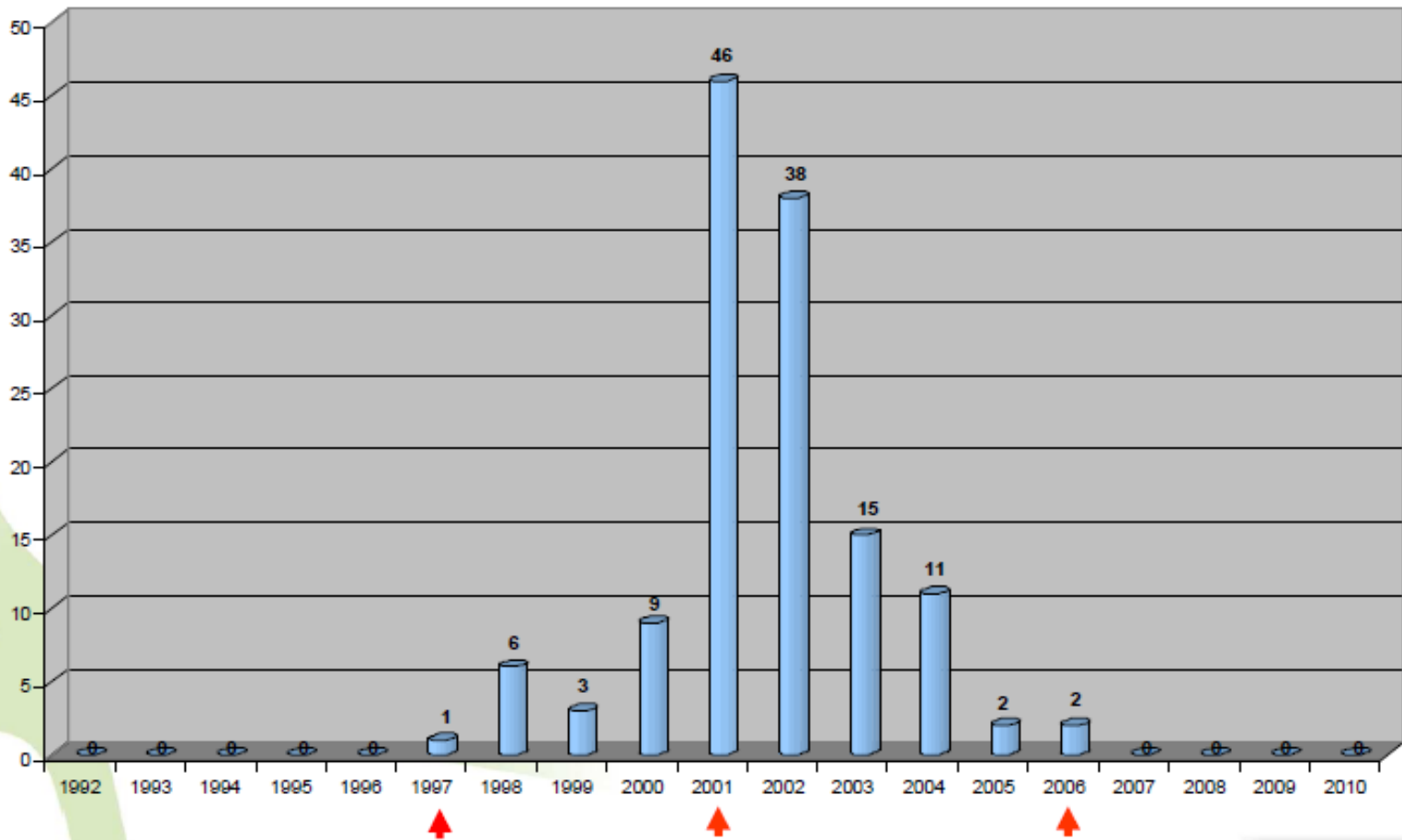
OIE status  
NEGLIGIBLE  
RISK

- Last case in 2006
- 2008: OIE – status
  - “Controlled BSE risk”
- 2012: OIE – status
  - “Negligible BSE risk” from May 2012
- Notification of disease or suspicion is compulsory
- Sampling of all
  - Emergency slaughter and fallen stock > 48 months
  - Clinical suspects > 12 months



# BSE cases in Belgium (1992-2010)

*n=133*



**FREE since**  
**2012**

✓ **BLUETONGUE**

- **Belgium = outbreaks BTV 8 in 2006-2008.**

2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
695	6870	48	0	0	0	0	0	0	0

- No clinical case in BE since 2008
- Negligible risk Status since 15 February 2012
- Notification of disease or suspicion is compulsory



**FREE since**  
**2012**

✓ **BLUETONGUE**

- **Vaccination policy:**

Voluntary vaccination (since 1 January 2011) authorized with inactivated vaccine.

In 2016 preventive vaccination after the outbreak of BTV8 in France.

Vaccine purchased by the Animal Health Fund

- **Monitoring during the winter :**

At random sampling of young non-vaccinated animals to detect a possible re-emergence of the virus (Ab ELISA) according to European guidelines.

- **PCR-analysis** for the bluetongue-virus in case of clinical suspicion or in case of abortion with malformed newborns.





✓ **IBR**

**(Infectious Bovine Rhinotracheitis virus)**

- **Compulsory** eradication program since 2012 (free program since 2006)
  - Sanitary status I.1 – I.2 – I.3 – I.4
  - Sanitary status I.1 = blocked farm & blocked animals
    - no pasture allowed
    - only slaughtering allowed
  - Vaccination policy (marker vaccines):
    - Depending on sanitary status of the herd:
      - I2: not certified FREE - compulsory vaccination
      - I3: Free - Voluntary vaccination
      - I4: Officially FREE - no vaccination allowed

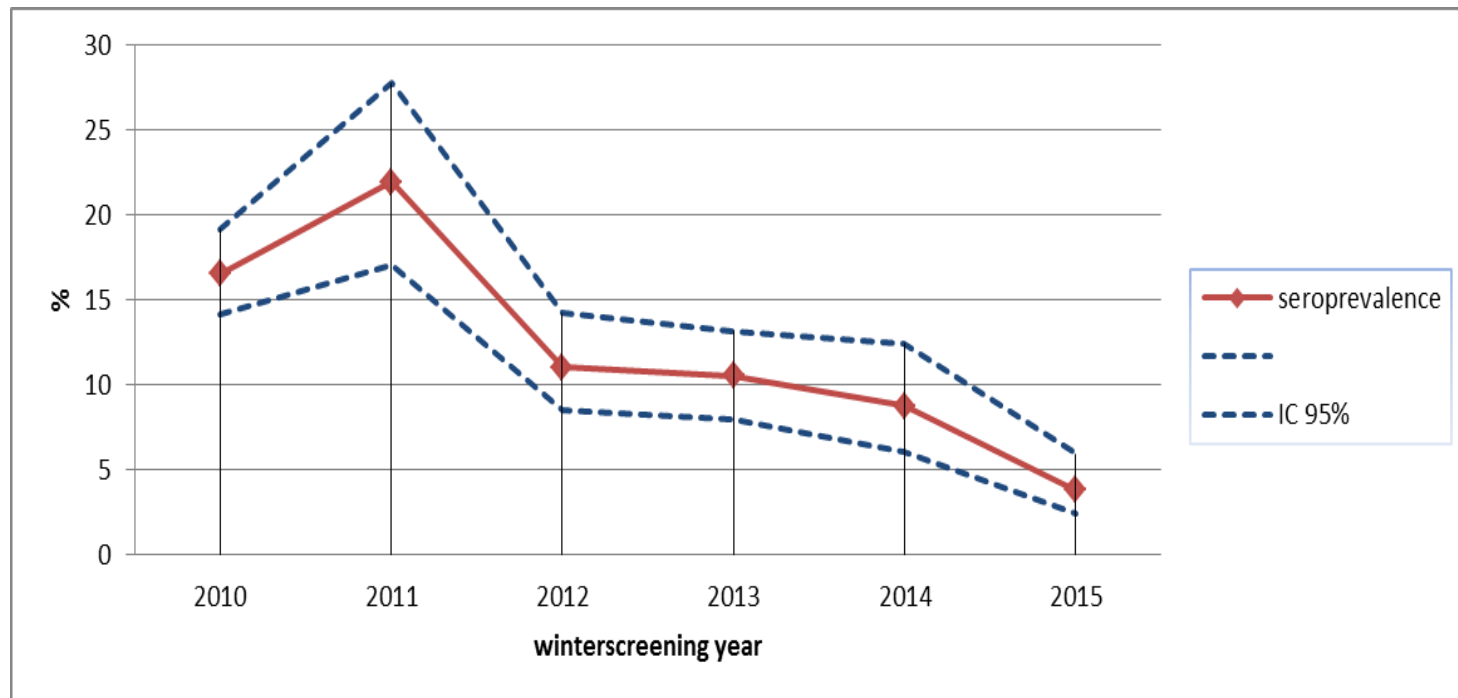
Delegation of the vaccination to the farmer is possible.



✓ IBR

EU-  
approved  
program

Trend of within-herd gE seroprevalence in cattle



✓ IBR

EU-  
approved  
program

## Distribution of the IBR gE within-herd seroprevalence stratified by age category

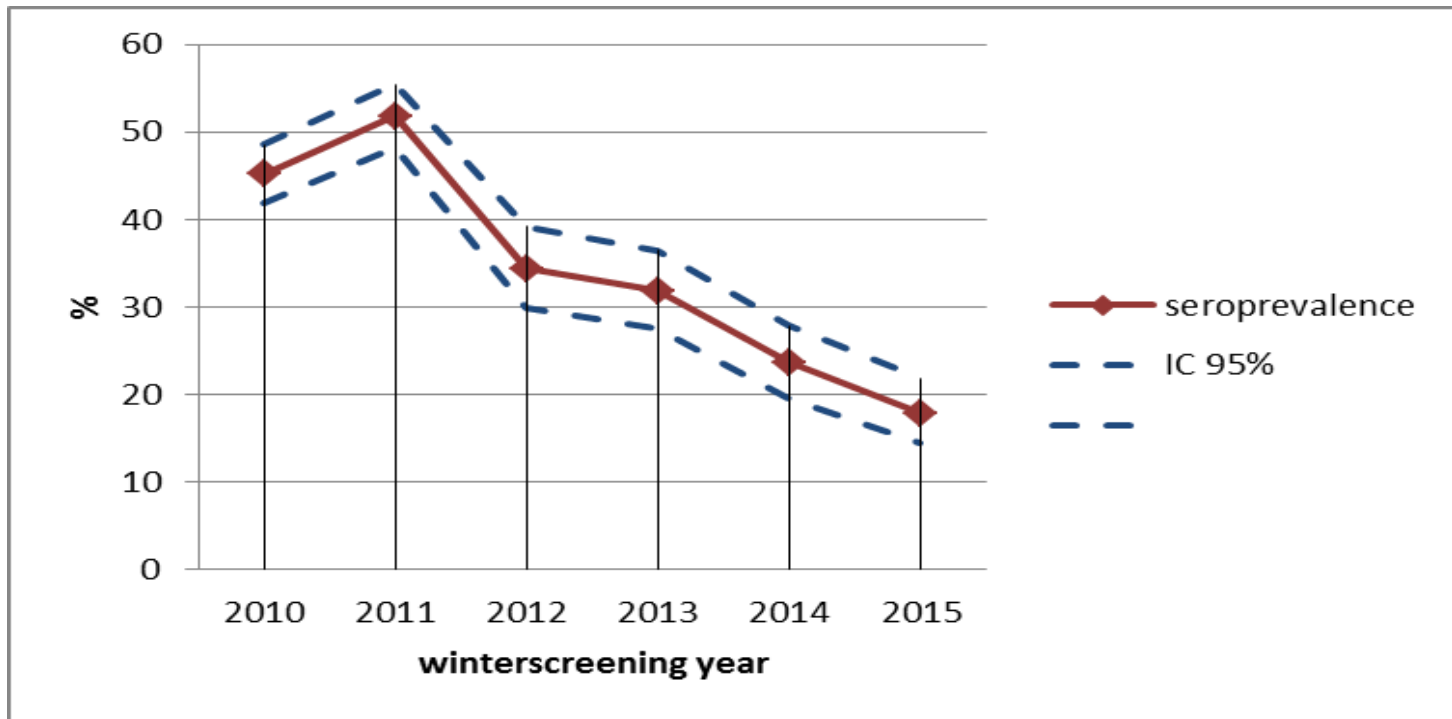
WS	6-12 months	12-24 months	>24 months
2012	4.05%(95%CI : 2.12-7.6)	5.54%(95%CI:3.43%-8.85%)	17.1%(95%CI:13.24%-21.79%)
2013	3.71%(95%CI : 0.88-6.53)	3.61%(95%CI:1.51-5.72)	16.91%(95%CI:13.22-20.6)
2014	3.34%(95%CI: 1.76-6.26)	5.4%(95%CI:2.9-9.92)	12.68%(95%CI:9.11-17.38)
2015	0.39%(95%CI:0.12-1.23)	1.66%(95%CI: 0.5-5.33)	6.34%(95%CI: 4.15-9.57)



✓ IBR

# EU- approved program

Trend of between-herd gE seroprevalence in cattle



✓ IBR

EU-  
approved  
program

IBR status of herds and animals

	IBR Status				
	I1	I2	I3	I4	Total
<b>Herds</b>	806	13.950	9.786	1.035	25.577
<b>Animals</b>	7.541	1.461.590	888.878	68.187	2.426.196
	IBR Status				
	I1	I2	I3	I4	Total
<b>Herds</b>	3%	55%	38%	4%	100%
<b>Animals</b>	0%	60%	37%	3%	100%



## ✓ BVD (Bovine Viral Diarrhea)

- **Compulsory** eradication program since 01/01/2015
  - Testing all newborn calves (ear notch when tagging)
  - Mother gets status based on the test result of the calf
  - Already 82% of all bovine animals have an individual BVD status
  - BVD-immunotolerant animals = BLOCKED
    - When POSITIVE → testing mother
    - no pasture allowed
    - only slaughtering allowed
  - NOT BVD-immunotolerant animals = FREE
  - Vaccination policy
    - Vaccination authorised
    - Delegation of the vaccination to the farmer is possible



# Thank you for your attention

