



BLUETONGUE

Belgium

SCOFCAH, Brussels, 11-12 April 2007



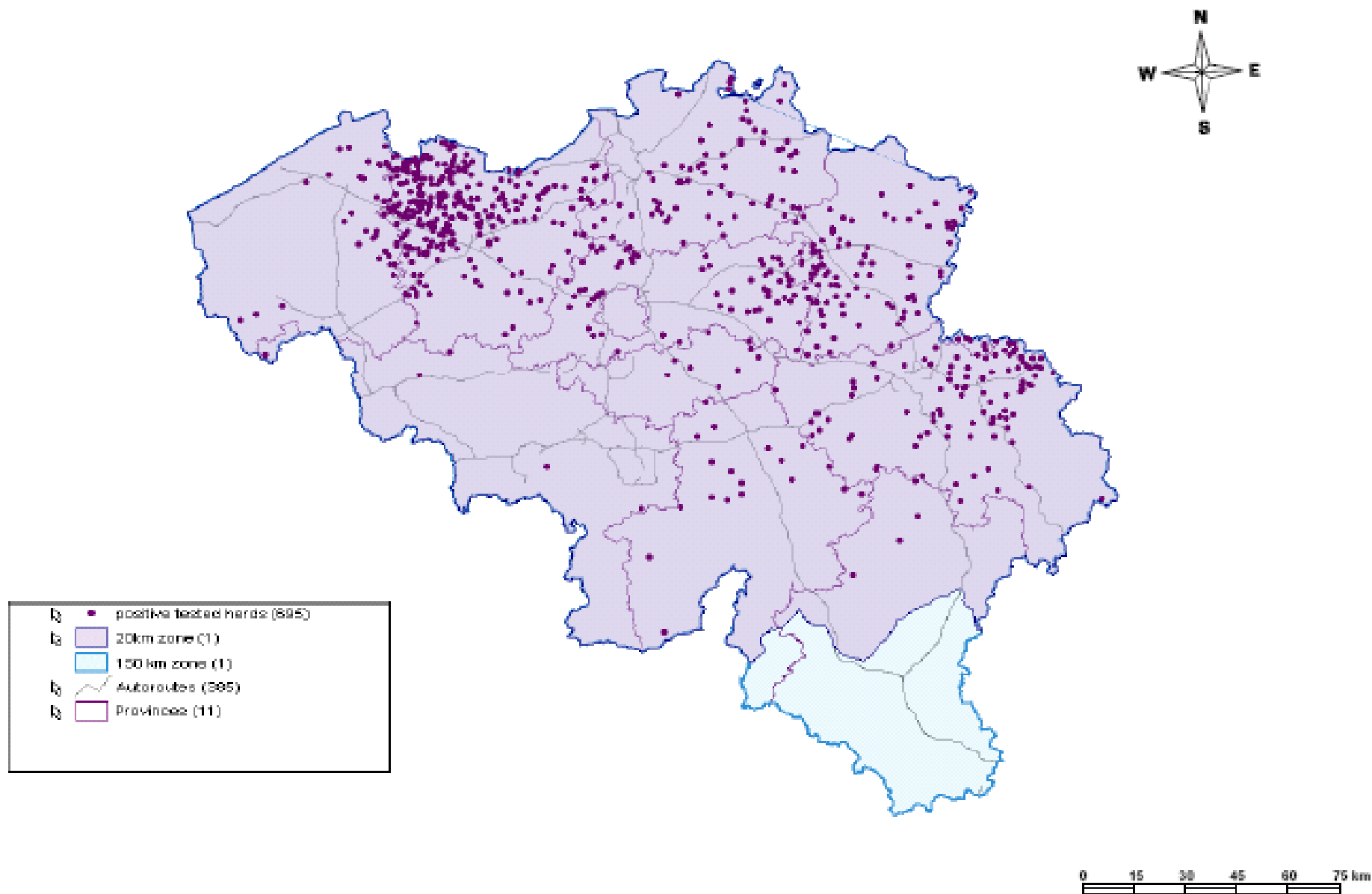
Table of contents

- **Chronology of cases**
- Actions concerning the vector
- Cross sectional study
- Sentinel herds
- Adaptation of measures



Situation 6 April 2007

- No clinical cases in 2007
- Cross sectional study 2007:
 - 2 seropositive bovines in protection zone
- 20 km zone extended to the entire territory of Belgium on 2 april 2007



2007-04-02

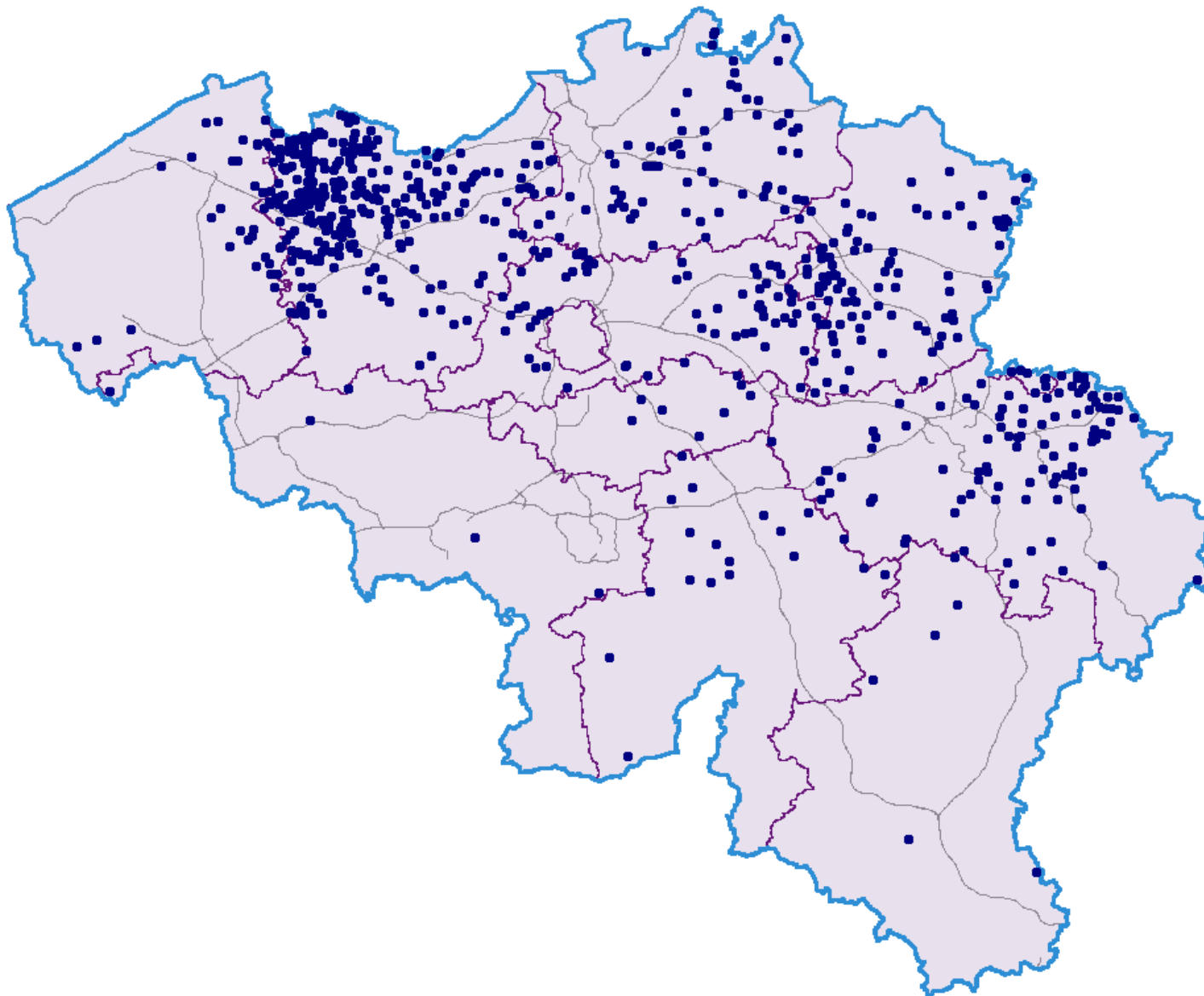




Table of contents

- Chronology
- **Actions concerning the vector**
- Cross sectional study
- Sentinel herds
- Adaptation of measures



Actions concerning the vector

- Vector free season has started on 16 December
- In 2006 22 different Culicoides species were captured
- Few Culicoides captured in 2007
- Rise of Culicoides numbers end March
- End of vector free season on 30 March
- 20 additional traps placed in the vicinity of sentinel herds will be operational in the next days

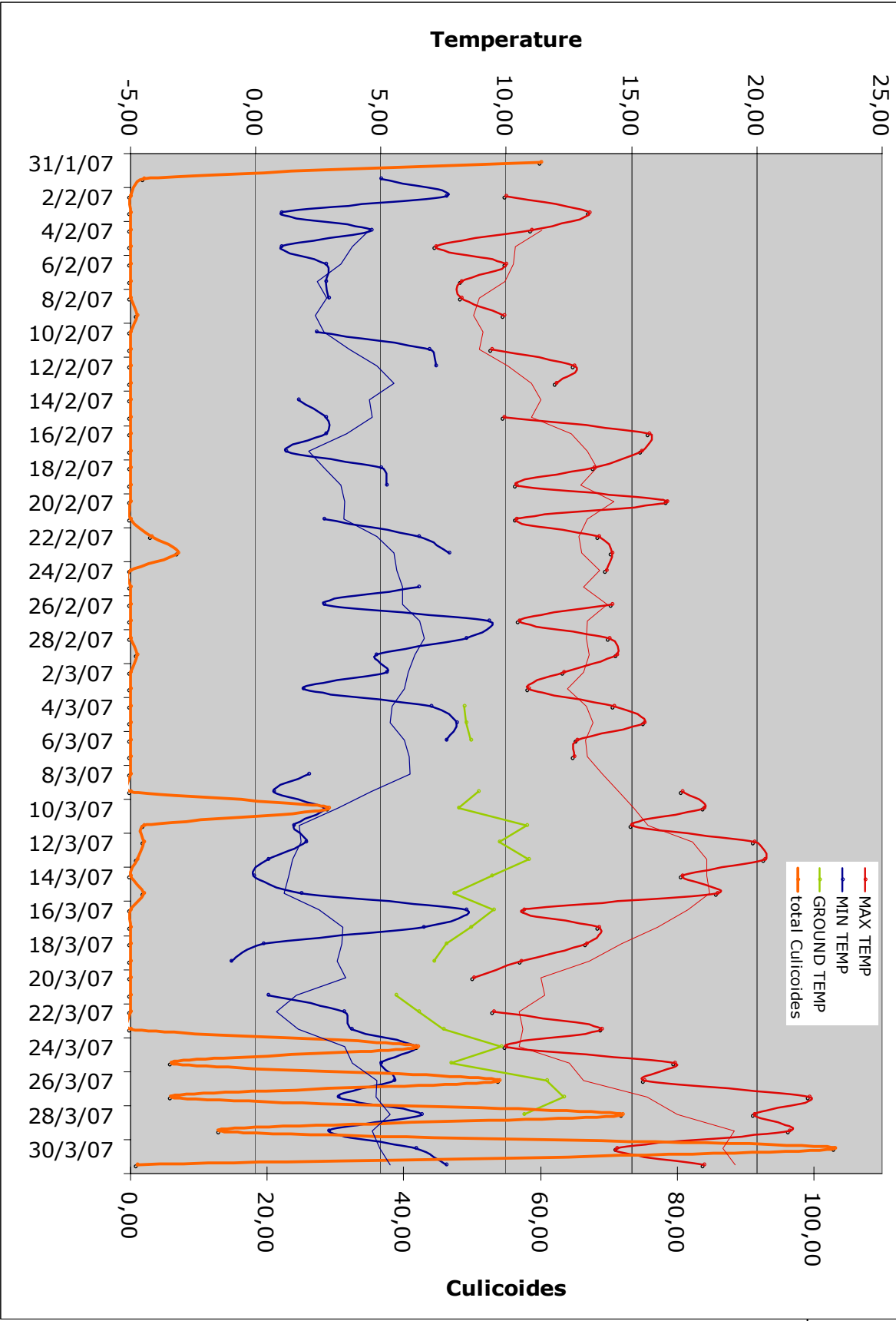


Actions concerning the vector

- Data on vector monitoring



Kessel Beemdweg



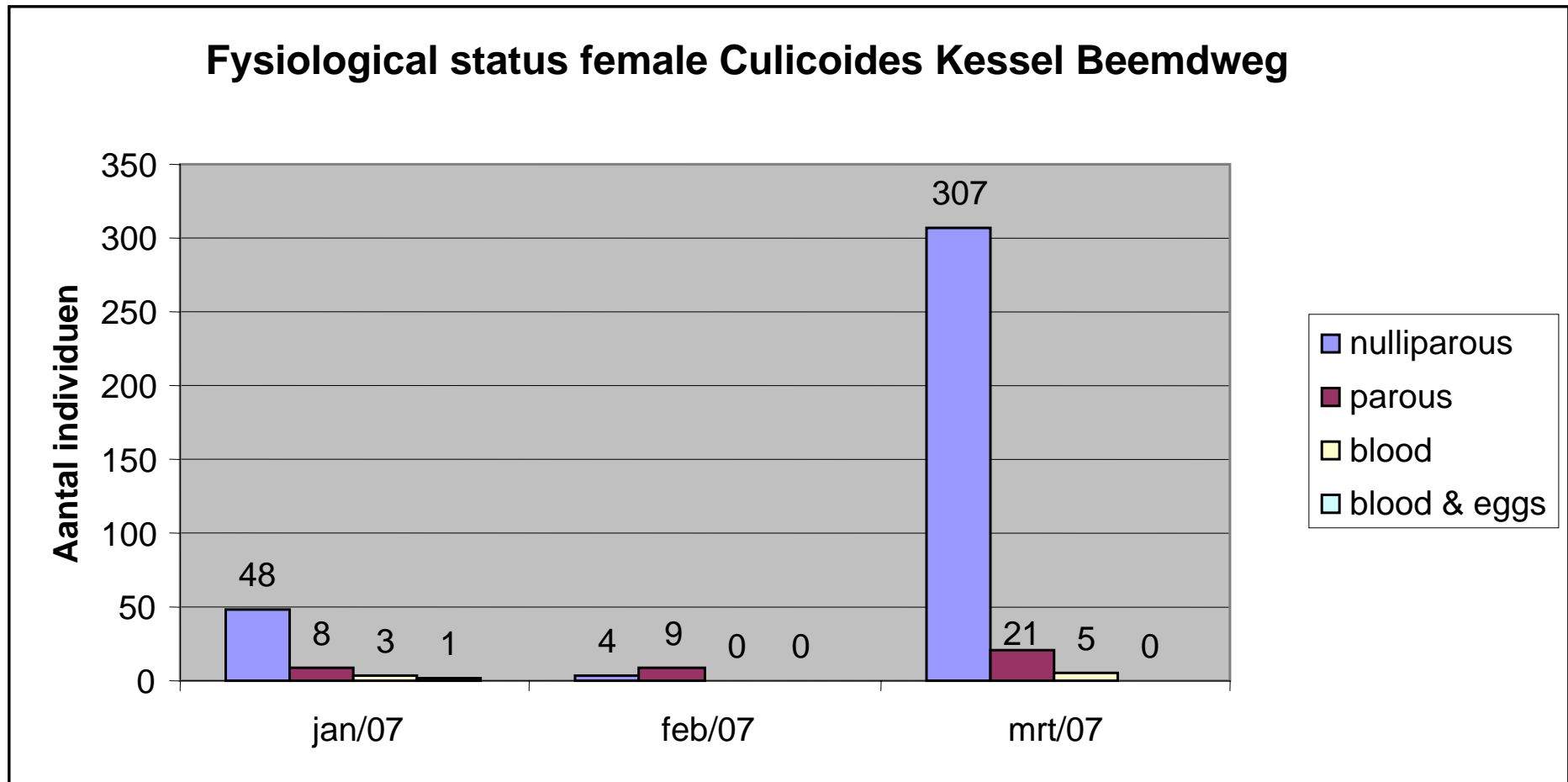


Actions concerning the vector

- Province of Antwerp
- Pasture with 2 horses
- In old faeces larvae of *C. dewulfi*
- Between 31/01/2007 and 31/03/2007:
 - 407 Culicoides captured
 - 391 *C. obsoletus/scoticus*, 13 *C. punctatus*, 3 *C. pulicaris*
 - 406 females and 1 male (*C. obsoletus*)
 - 359 nulliparous, 38 parous, 8 with blood, 1 with blood and eggs

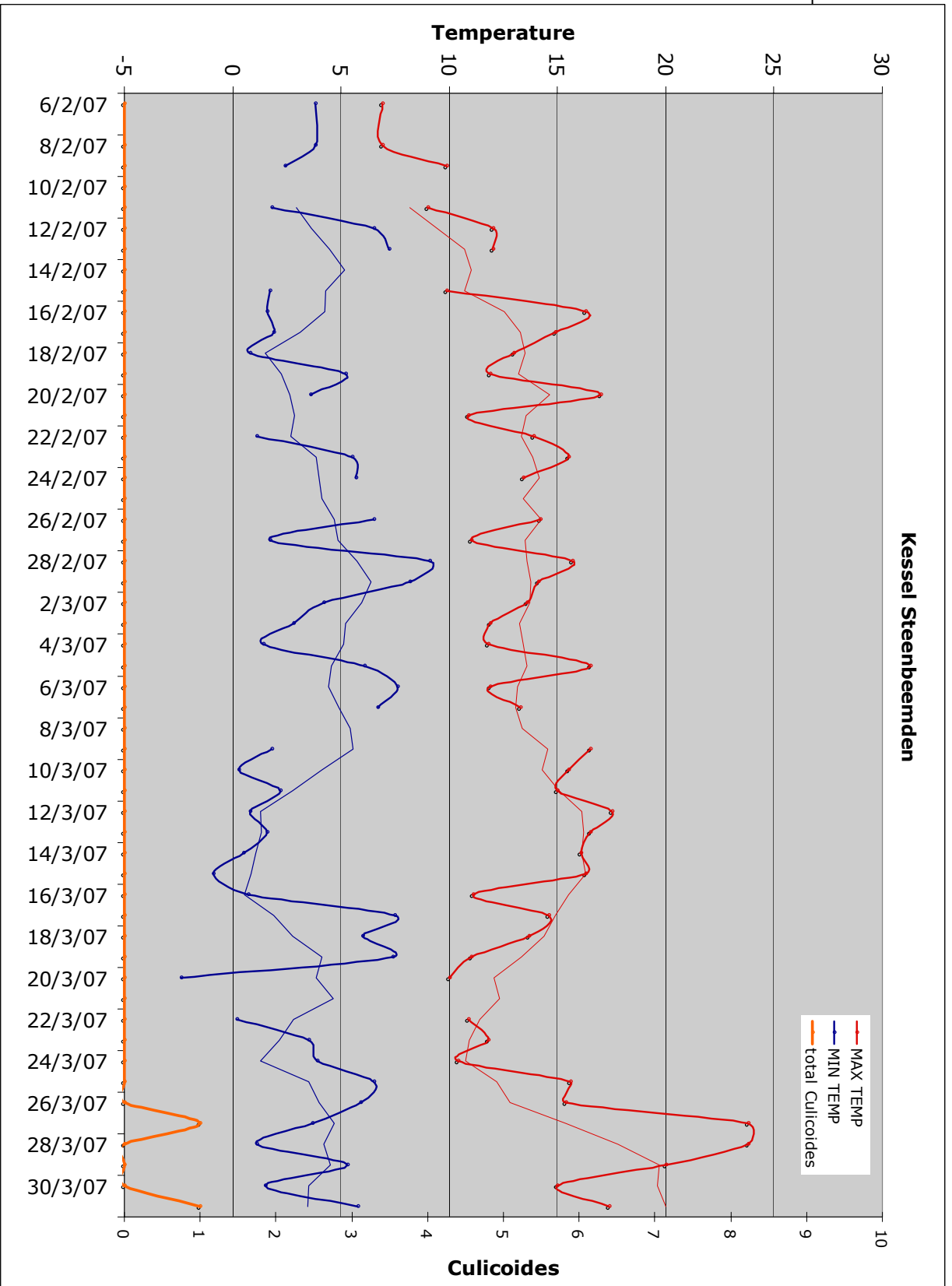


Actions concerning the vector





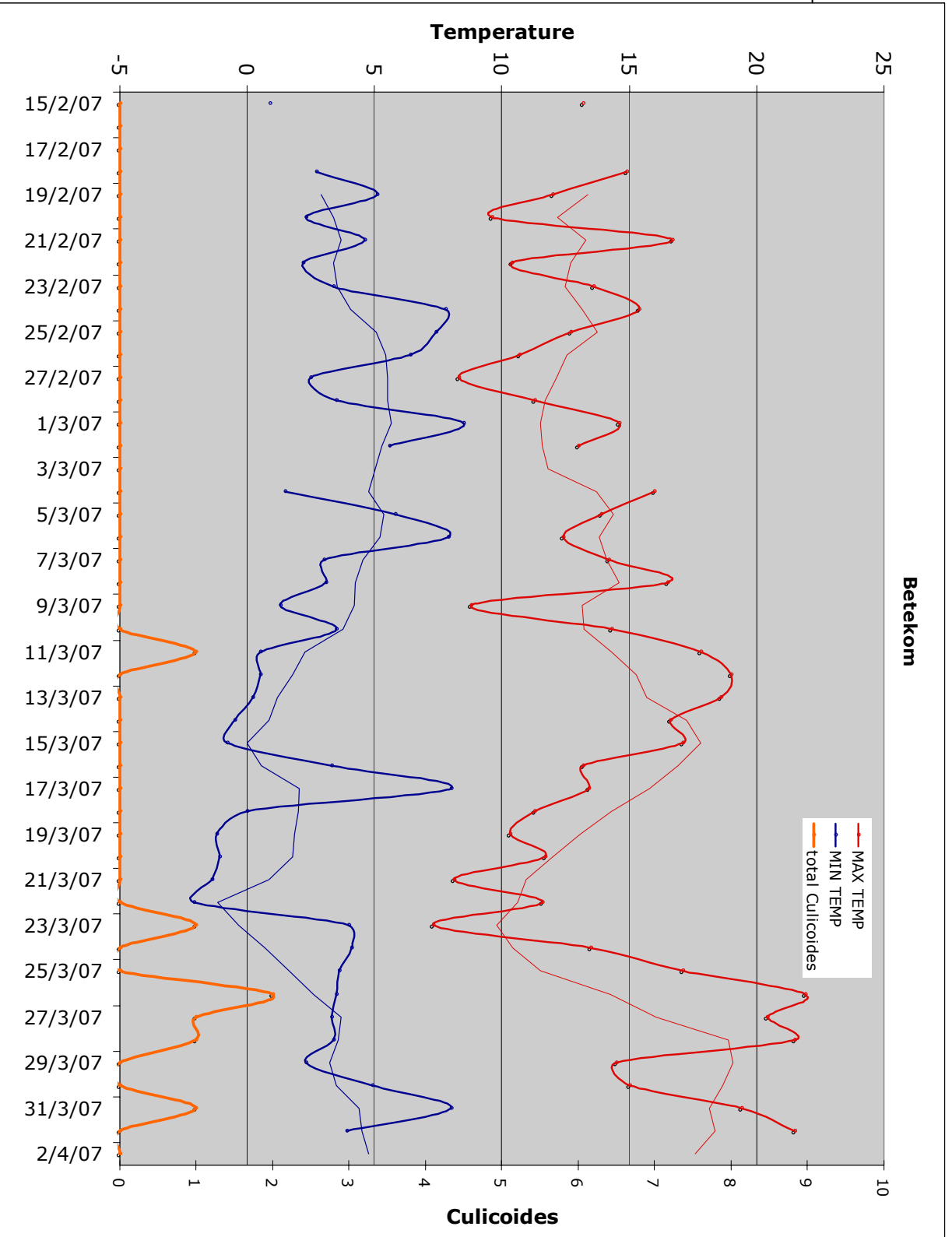
Kessel Steenbeemden





Actions concerning the vector

- Province of Antwerp
- 200 m from previous pasture with 2 horses
- In old faeces larvae of *C. dewulfi*
- Between 31/01/2007 and 31/03/2007:
 - 2 Culicoides captured
 - 1 *C. obsoletus/scoticus*, 1 *C. punctatus*
 - 2 females
 - 2 nulliparous





Actions concerning the vector

- Province of Flemish Brabant
- Next to pasture with deer and sheep
- Between 31/01/2007 and 31/03/2007:
 - 7 Culicoides captured
 - 4 *C. obsoletus/scoticus*, 2 *C. punctatus*, 1 *C. pulicaris*
 - 7 females
 - 6 nulliparous and 1 with blood



Actions concerning the vector

- Province of Namur
- Municipality Gembloux
- 02/04/2007
- Trap next to stable with cows: 180
Culicoides captured
- Trap on pasture without cows: 4 Culicoides
captured



Table of contents

- Chronology
- Actions concerning the vector
- **Cross sectional study**
- Sentinel herds
- Adaptation of measures



Cross sectional study

- Prevalence estimations for different regions in Belgium:
 - Animal prevalence
 - Herd prevalence
 - Within-herd prevalence
- Establishment of virus activity during winter
- Estimation of economical impact
- Identification of risk factors



Cross sectional study

- Stratified by province
- Study population: cattle
- Sampling frame:
 - dairy herds with on-farm selling of dairy products (N=1245)
 - Sampled during winter programme
- Two stage sampling:
 - 370 herds tested, geographically random sampled
 - All animals > 2 years



Cross sectional study

- All animals serum + blood sampled
- Serological diagnosis by ELISA
- 227 serological negative and 150 serological positive animals will be tested by PCR



Cross sectional study

- Additional data
 - Geographical location of herds
 - Information on economical parameters were obtained by on-farm questionnaire survey



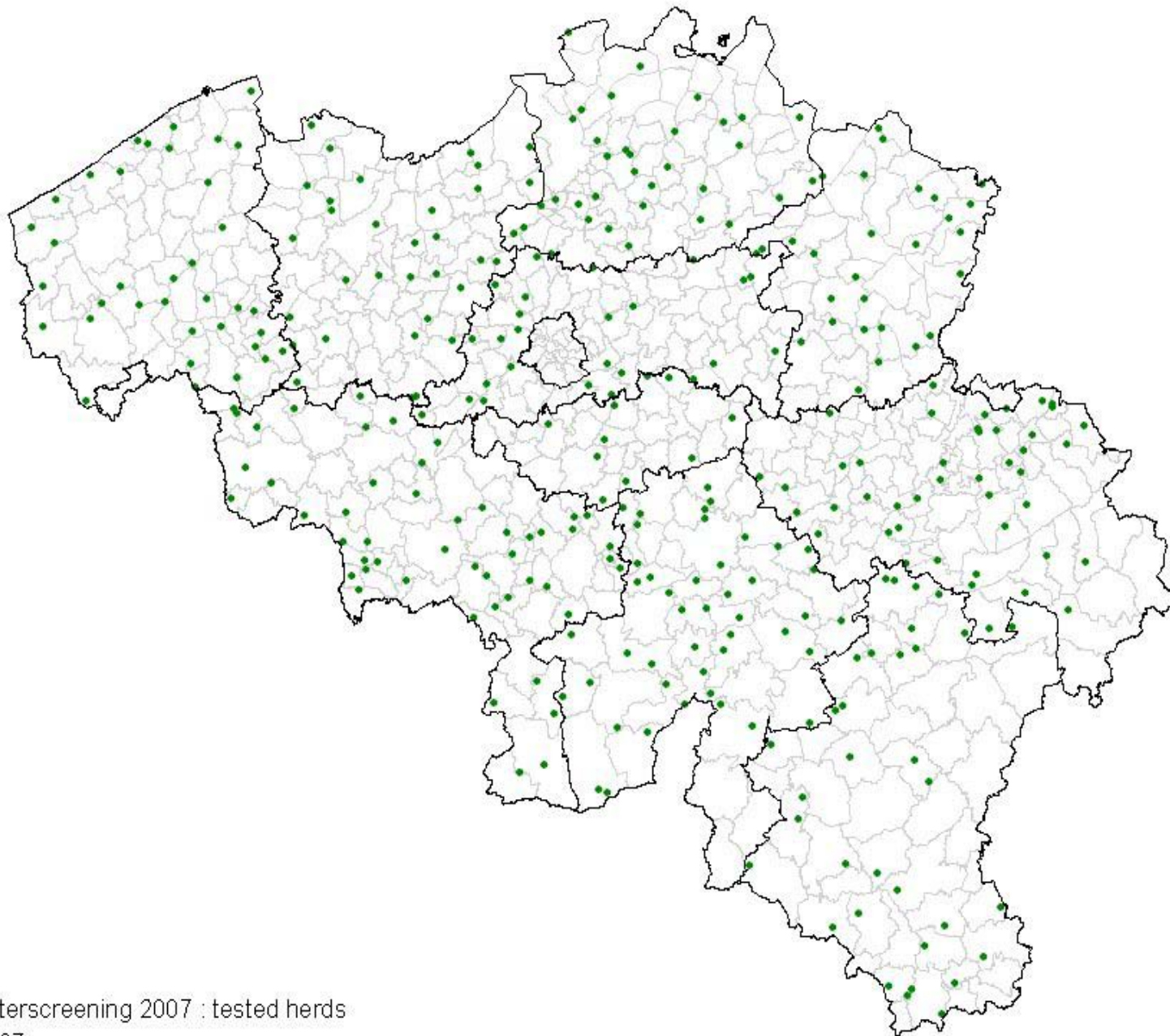
Cross sectional study

PROVINCE	HERDS		
	Sampling frame	Tested	>=20 NEG
ANTWERPEN	128	35	30
BRABANT WALLON	59	10	8
HAINAUT	390	50	49
LIEGE	65	44	31
LIMBURG	46	28	17
LUXEMBOURG	36	34	30
NAMUR	139	45	42
OOST-VLAANDEREN	129	32	24
VLAAMS-BRABANT	84	24	19
WEST-VLAANDEREN	169	36	31
TOTAL	1245	338	281

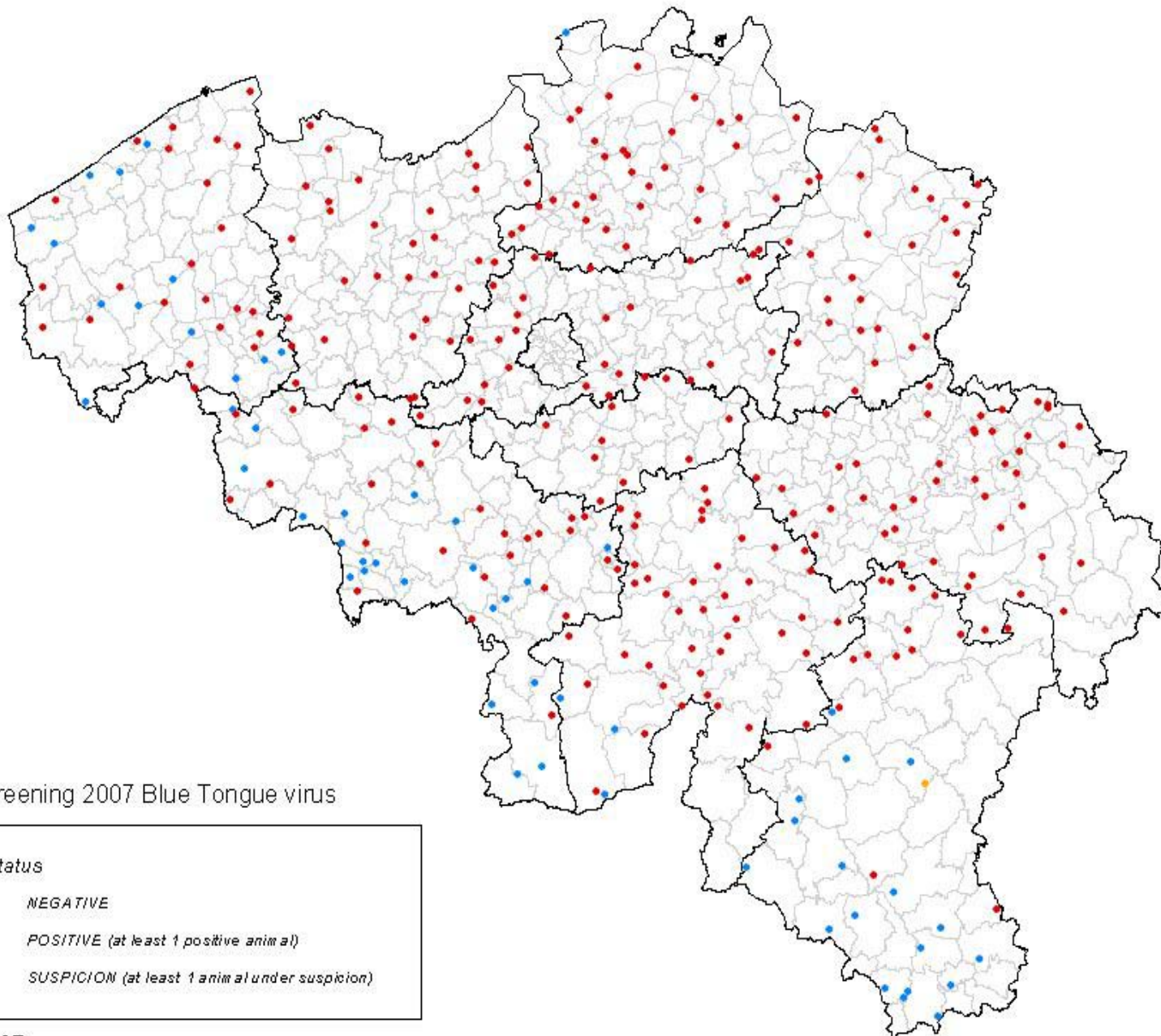


Cross sectional study

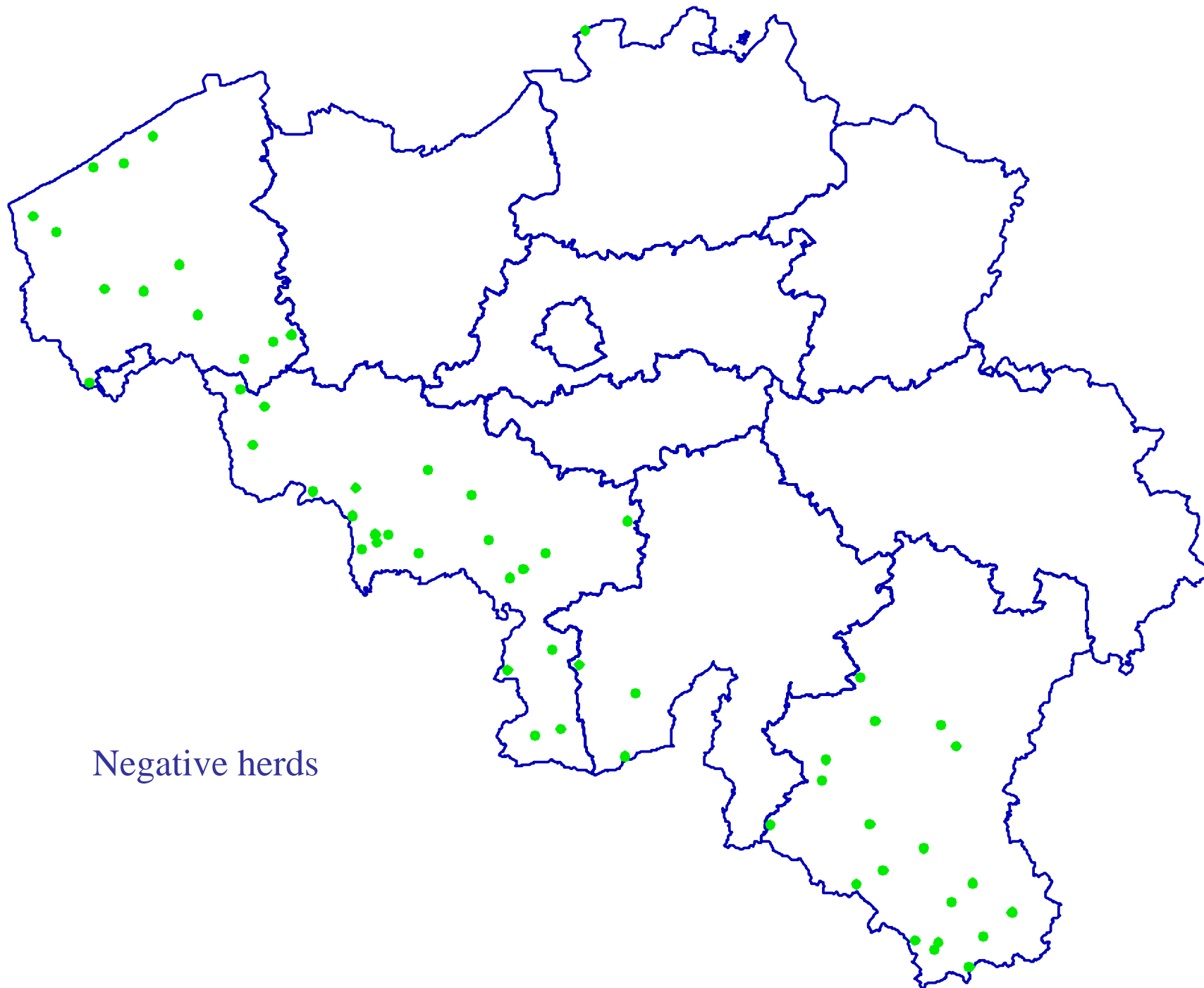
APPARENT PREVALENCE			
PROVINCE	animal P	Within herd P	herd P
ANTWERPEN	0,22	0,27	0,97
HAINAUT	0,03	0,05	0,56
LIEGE	0,39	0,41	1,00
LIMBURG	0,48	0,51	1,00
LUXEMBOURG	0,08	0,09	0,47
NAMUR	0,10	0,14	0,93
OOST-VLAANDEREN	0,18	0,22	0,94
VLAAMS-BRABANT	0,22	0,22	1,00
BRABANT WALLON	0,16	0,15	0,90
WEST-VLAANDEREN	0,11	0,13	0,67



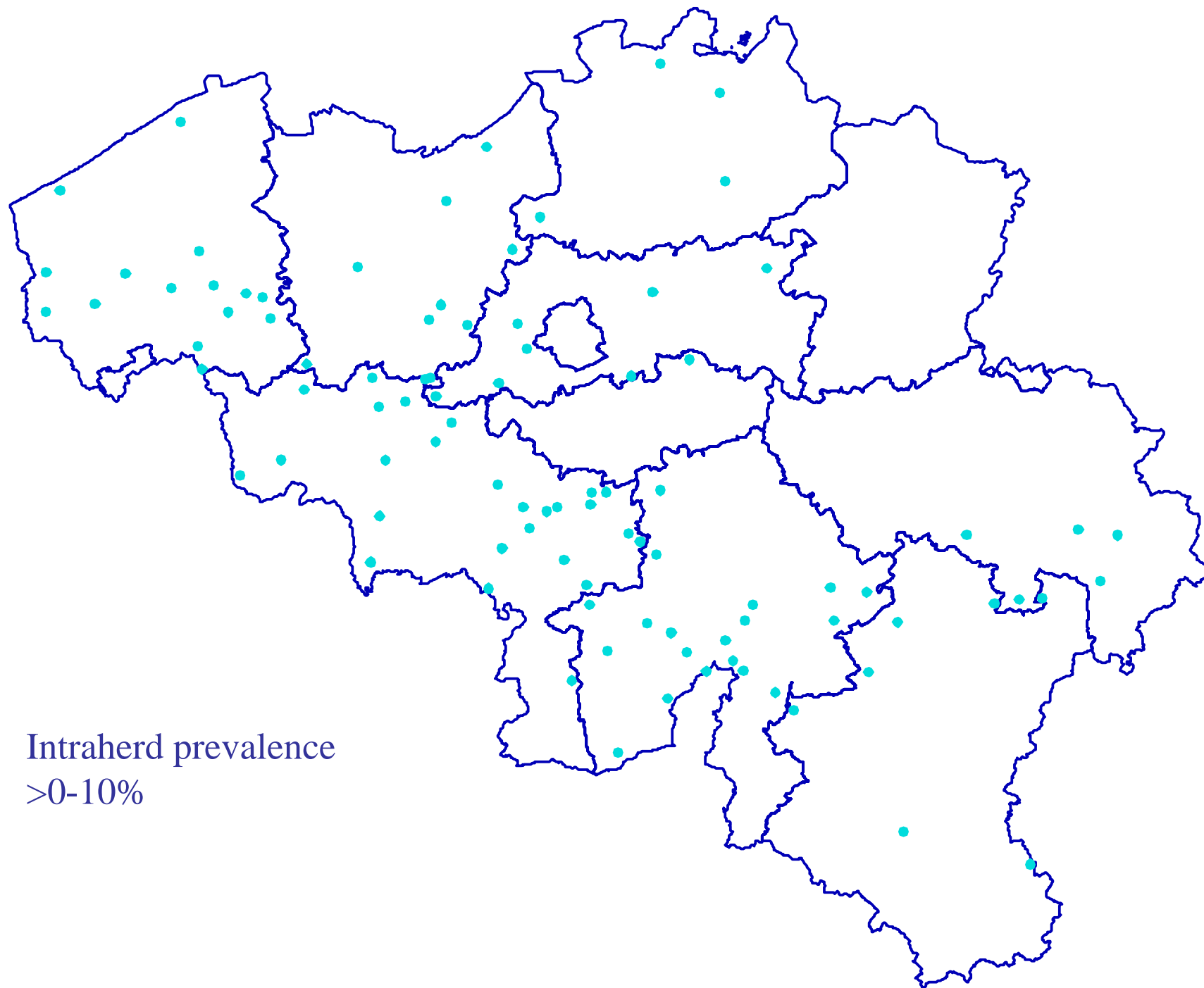
BLT Winterscreening 2007 : tested herds
13/03/2007



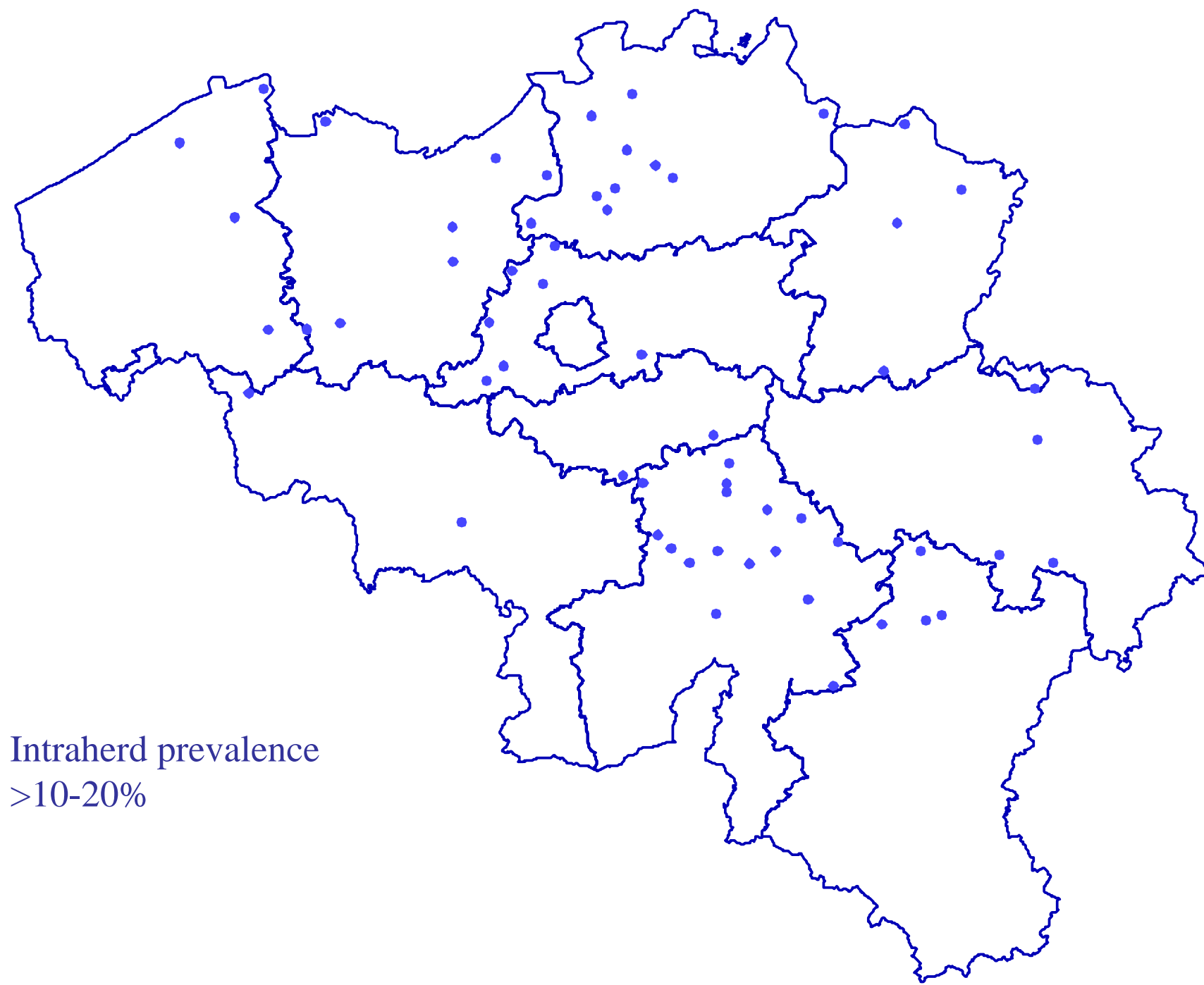
13/03/2007



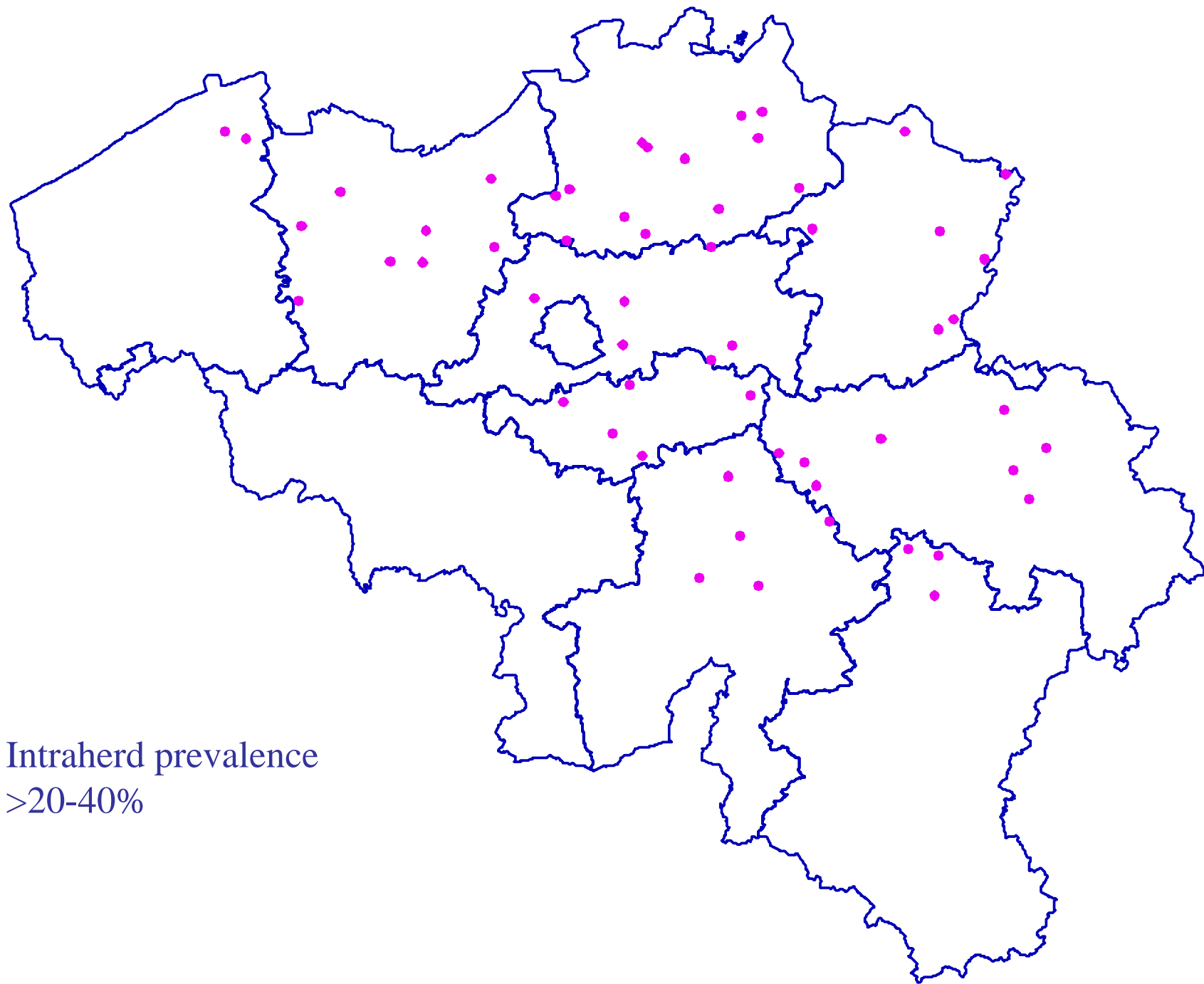
Negative herds



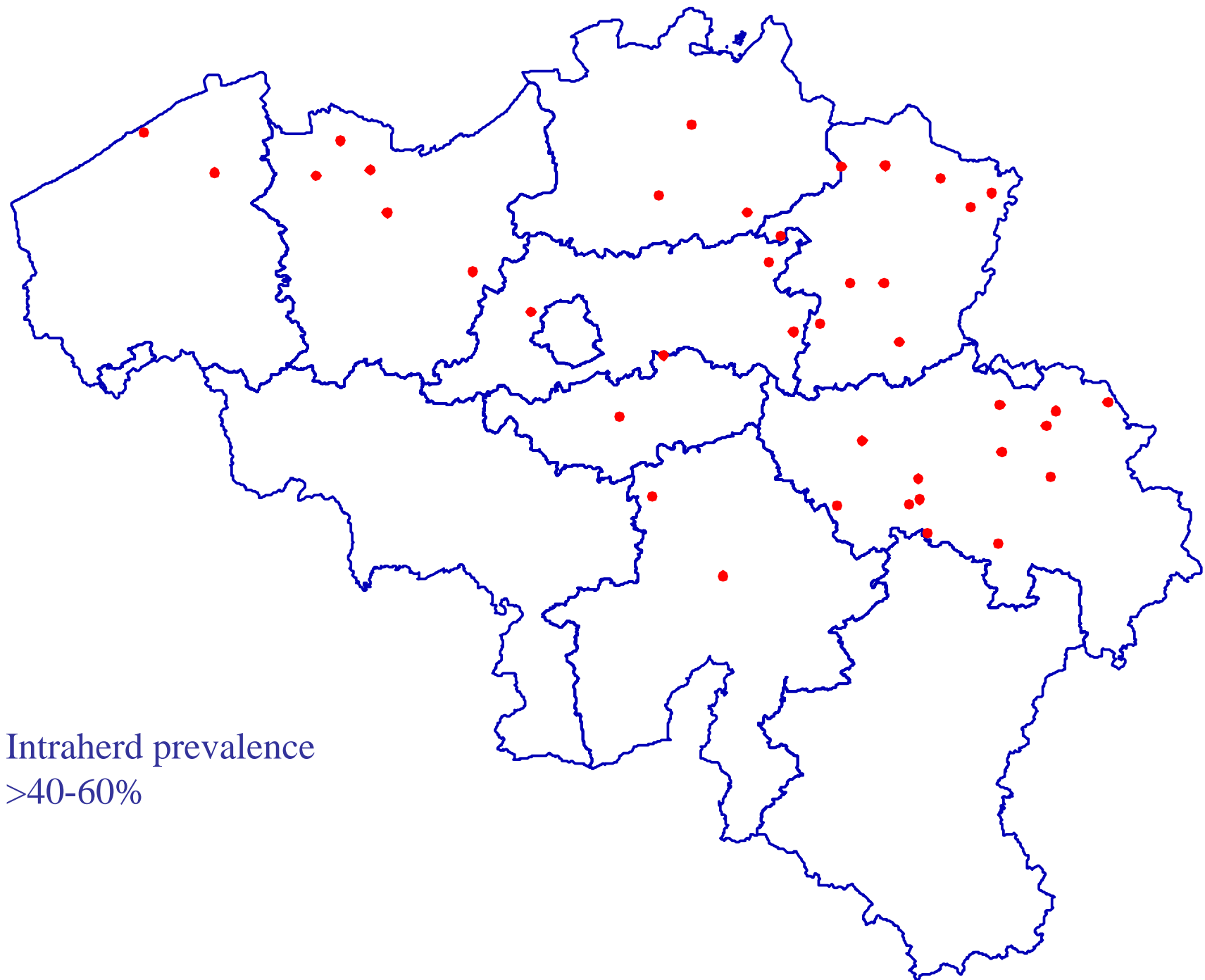
Intraherd prevalence
>0-10%



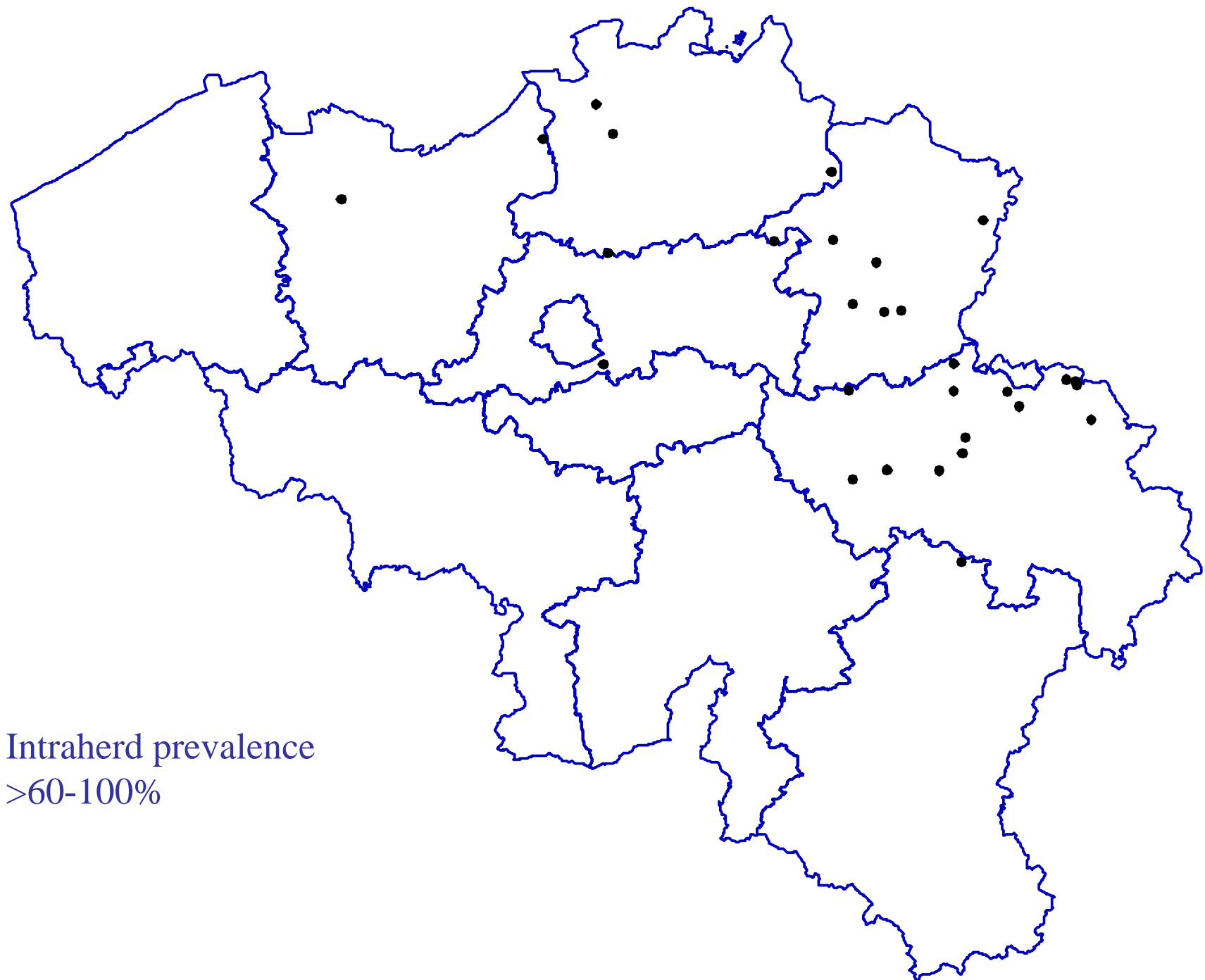
Intraherd prevalence
>10-20%



Intraherd prevalence
>20-40%



Intraherd prevalence
>40-60%



Intraherd prevalence
>60-100%



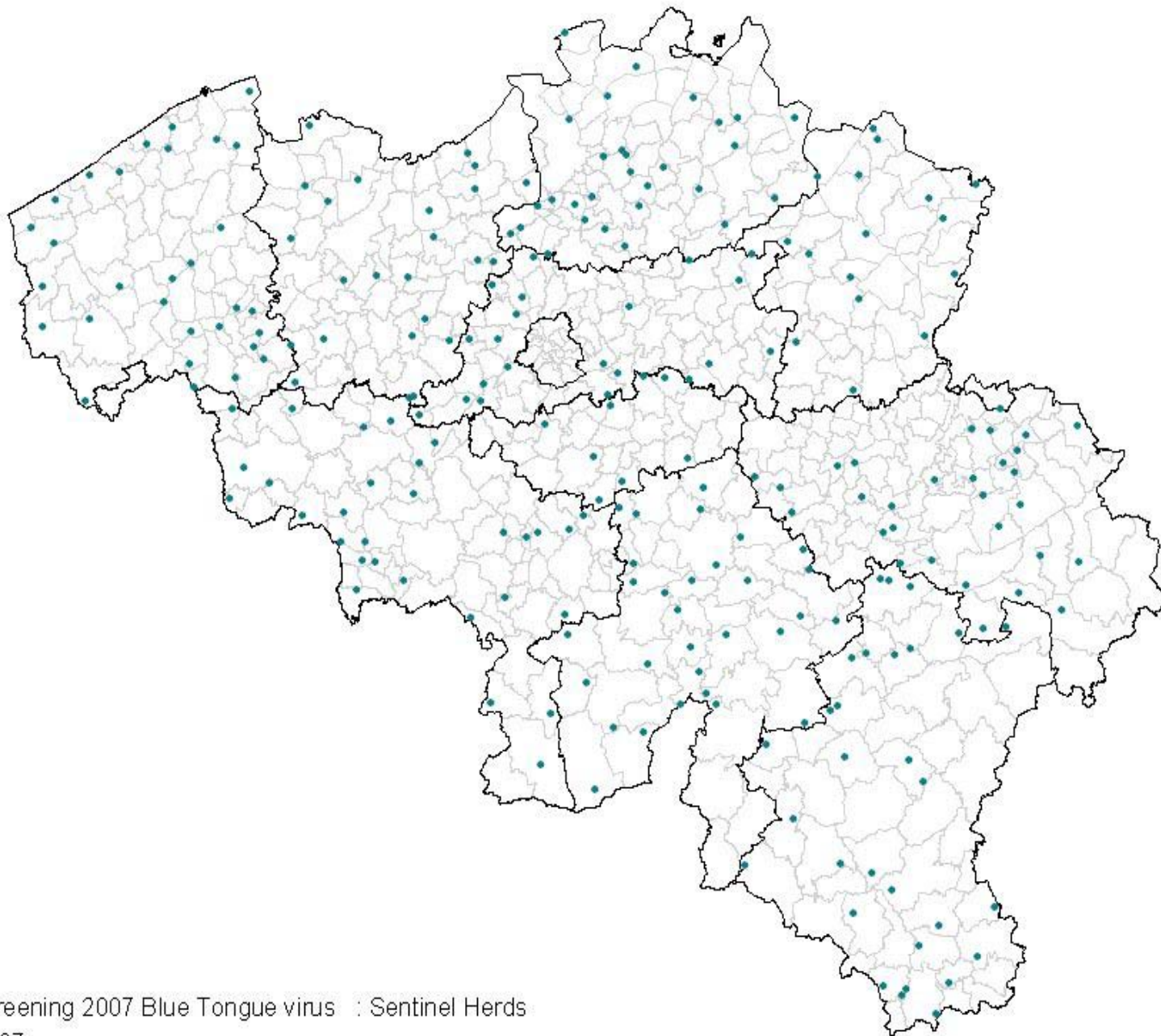
Table of contents

- Chronology
- Actions concerning the vector
- Cross sectional study
- **Sentinel herds**
- Adaptation of measures

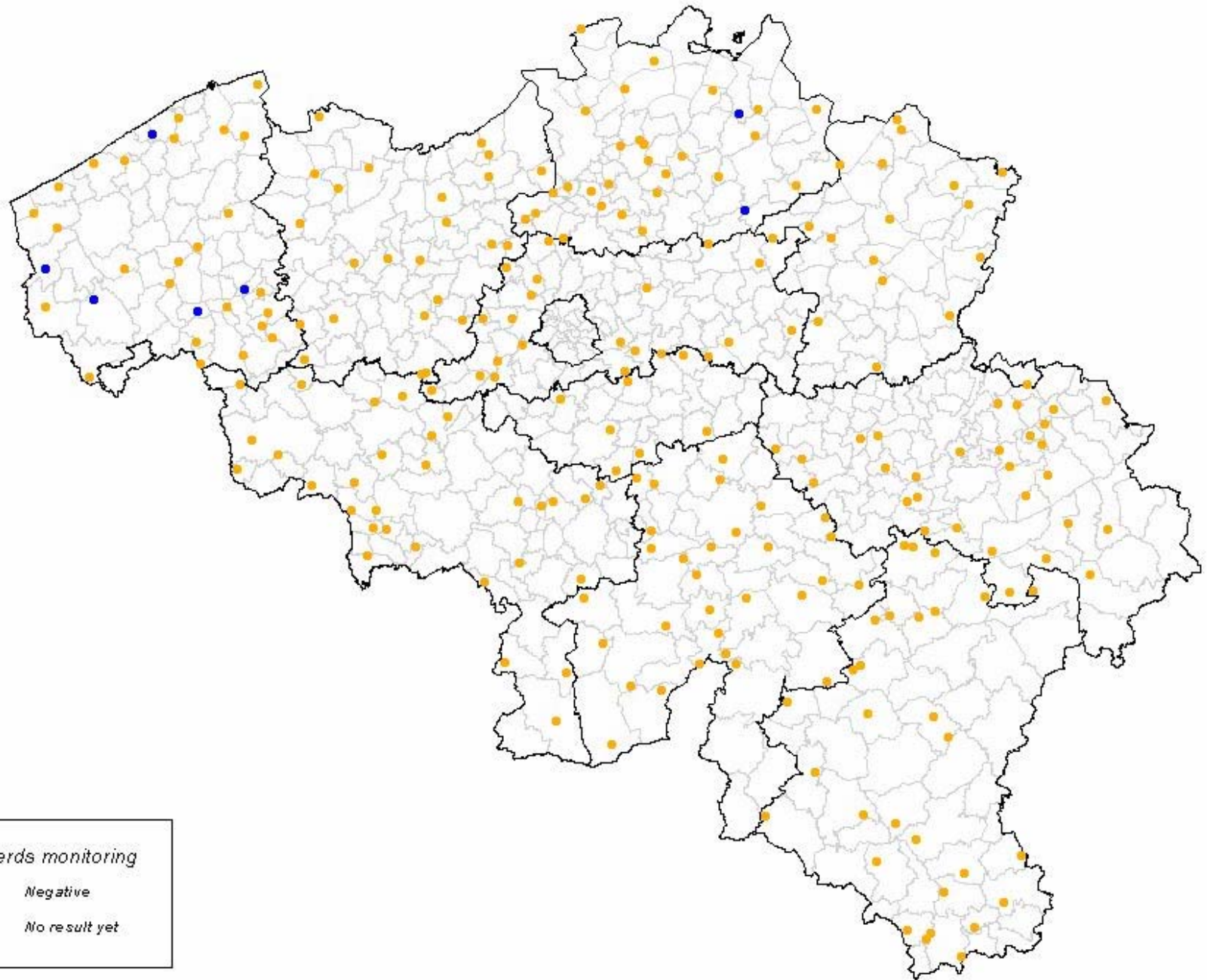


Sentinel herds

- Minimal 300 sentinel animals per province
 - 30 herds with minimal 20 seronegative animals
 - Geographically distributed
 - Monthly sampling & testing



Winterscreening 2007 Blue Tongue virus : Sentinel Herds
13/03/2007



Sentinel Herds monitoring

- *Negative*
- *No result yet*

05/04/2007



Table of contents

- Chronology
- Actions concerning the vector
- Cross sectional study
- Sentinel herds
- **Adaptation of measures**



Adaptation of measures

- Previous protocol between 5 Memberstates concerned suspended on 30 March
- New protocol between 5 Memberstates
- Applicable from 06 April 2007 at 12h00 on
- Transport of ruminants from infected zone to the rest of restricted zone
 - For slaughter: without testing, with insecticide treatment
 - For breeding and production: after period of insecticide treatment and favourable test



Website

www.favv.be

www.afsca.be

Bluetongue