



MINISTÈRE DE L'AGRICULTURE,
DE L'ALIMENTATION, DE LA PECHE ET DES AFFAIRES RURALES

CSF outbreak Chemery-les-Deux (France) April 2002

USDA/APHIS
18 December 2002



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I - EU Regulation

- Council directive 2001/89 of 23 October 2001 on Community measures for the control of CSF
- Commission decision 2002/106 of 1 February 2002 diagnostic manual
(diagnostic procedures, sampling methods, evaluation of the laboratory tests)



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Principles

The CSF vaccination is prohibited

Derogation in emergency situations (approbation by SCFCAH) --> Culling of vaccinated animals

The feeding of swill to pigs is prohibited

Enforced in FR since the arrêté of 07/24/90 modifying the arrêté of 11/14/00

Restriction areas

7 ▶ 21 days in the surveillance zone (SZ) : 10 km
21 ▶ 30 days in the protection zone (PZ) : 3 km

Culling

Outbreak, epidemiologically linked holdings ... and SZ and PZ
(Animal welfare)



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Official surveillance

Suspicion

Measures enforced by the préfet, supervised by the vet services :

- Inventory of animals
- Prohibition of movements of animals (in/out)
- Disinfection measures
- Clinical examination of animals including the measurement of temperatures
- Serological sampling +/- virological sampling
- Epidemiological inquiry ▶ official surveillance of contact holdings



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Official surveillance

Confirmation

Measures enforced by the préfet, supervised by the vet services :

- Culling of animals (+ samples)
- ↗ restricted areas : ZS (10 km) and ZP (3 km)
- Cleaning/Disinfection measures in the infected holding after the culling of the animals
- Contact holdings :
 - Clinical examination of animals including the measurement of temperatures
 - Serological sampling +/- virological sampling



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II - Background

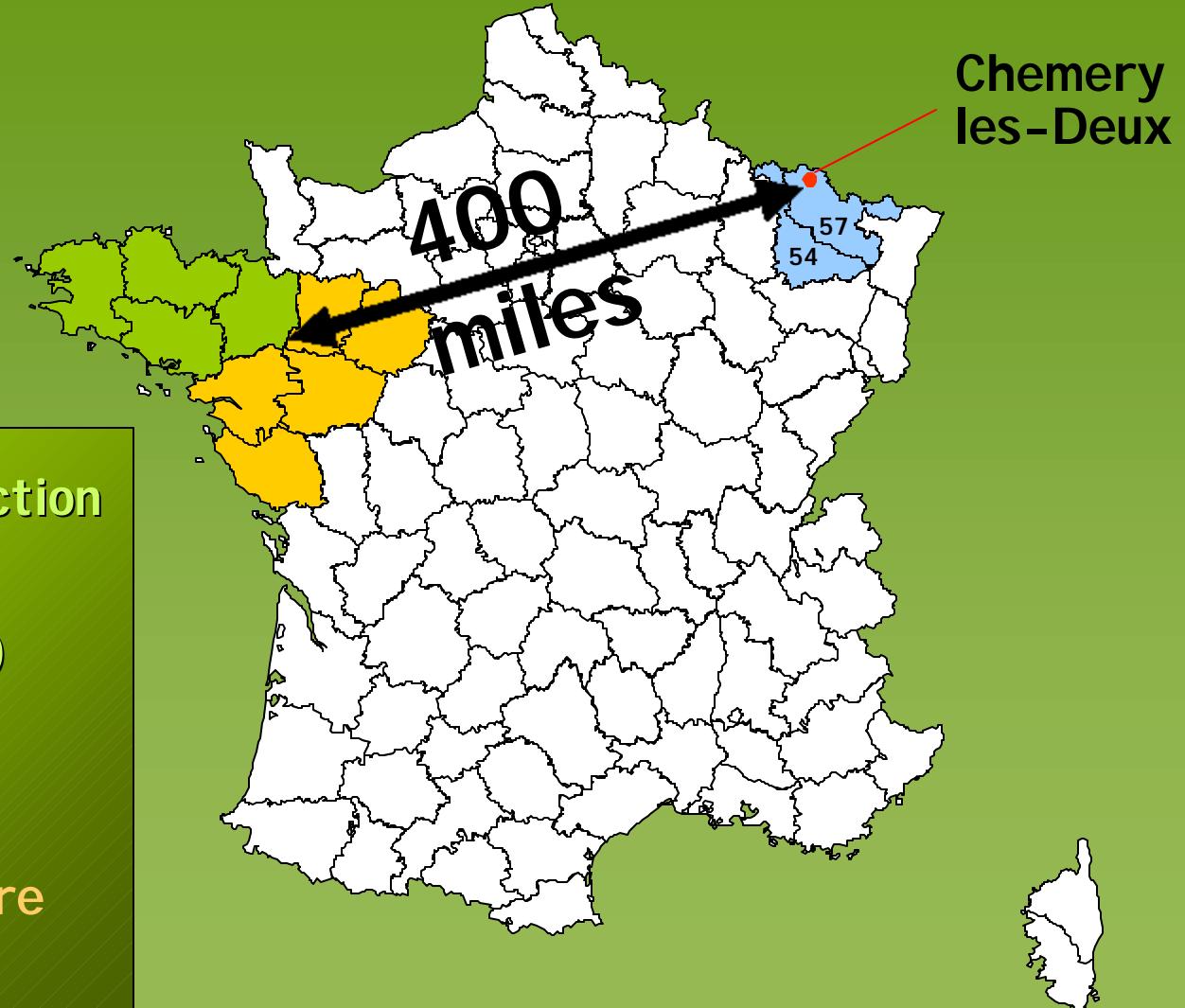
Chemery-les-Deux : 395 post-weaning piglets

- 04/20 : death of 2 piglets
- 04/21 : death of 2 piglets
- 04/22-24 : death of 20 piglets : official surveillance
► sequestration, inventory of livestock, samples, epidemiological inquiry, protection and surveillance zones (PZ/SZ)
- 04/26 : ELISA-Ag and PCR-RT positive
► preventive culling, destruction into a rendering plant
- 04/29 : Cell culture of the virus : confirmation



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Localisation





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Aetiologic agent

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CSF virus genotype Rostock 2.3

Identical to the virus responsible for :

- the epizootics in wild boars in Rhenany-Palatinate, Sarre, Luxemburg and France ;
- the outbreaks in pig holdings in Rhenany-Palatinate (western part) and Luxemburg



III – Epidemiological investigation

04/24 : ▶ official surveillance of holdings at risk :

Contact holdings (March – April) :

- 1 in the SZ
- 5 in dépt. 57 out of PZ/SZ
- 4 in dépt. 54 out of PZ/SZ
- 1 in Germany (Beuren)

Neighbouring : 1 holding < 1 km

Completed : investigation in the rendering plant
(March, April then daily)

04/25-29 : . sampling in the contact holdings
. Notification to Germany (confirmed
04/26)



Date of arrival	13 March		1 March	25 March
Origin	3 holdings in common			
Number of pigs	174		173	220

Serological tests and clinical exams : negative in upstream holdings

Expeditions out				
Dépt (54) , 8 March	95 piglets (Stable not identified)			
Germany, 15 April			115 piglets	35 piglets

German fattener officially declared infected : 26 April 2002

Symptoms	Cough diar.		↓ weight, cough	cut. haemor, cough	Cough
Date			5 April	+++	++
Gravity	+				
Mortality	-		+++ (n # 68)		-
Date			20 April		

Introduction of the virus in stable 2 non linked to the introduction of the piglets

Virology (PCR)	++		++	++
Sérology	12 neg 1 dbfl		10 neg 4 dbtf 4 pos	6 neg

In stable 2, beginning of seroconversion : contamination 14-21 days before the blood sampling (**5-12 April**).

First characteristic symptoms (mortality, haemorrhages) on 20 April 2002 : contamination 7-10 days before (**10-13 April**)

Hypothesis :

H1 : visit of an employee of the german fattening society : 12 April 2002

H2 : Truck used for the transport of the piglets to germany : 15 April 2002

NB : The Farmer is not a hunter and doesn't feed the piglets with swill



Epidemiological inquiry

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OUTBREAK OF CHEMERY-LES-DEUX

Hypothesis of contamination	probability + probability ++
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Name of holders	Dépt*	Location Municipality	Type of contact	Nature of Contact	Rank of collection	Number of animals	Date of contact	Date APMS
A	57	Launstroff	in	Piglets	-	9	7/2	25/4
B	57	Chailly-les-Ennery	in	Piglets	1	16	1/3	25/4
C	54	Cosnes-et-Romain	in	Piglets	2	14	1/3	25/4
D	54	Bertrameix	in	Piglets	3	75	1/3	25/4
E	57	Rizing	in	Piglets	4	48	1/3	25/4
F	57	Kiersch-les-Sierk	in	Piglets	5	9	1/3	25/4
G	57	Evendorf	in	Piglets	6	11	1/3	25/4
H	54	Noers	out	Piglets	-	95	8/3	25/4
C	54	Cosnes-et-Romain	in	Piglets	1	25	25/3	25/4
I	54	Crantenoy	in	Piglets	2	120	25/3	25/4
E	57	Rizing	in	Piglets	3	36	25/3	25/4
F	57	Kiersch-les-Sierk	in	Piglets	4	29	25/3	25/4
G	57	Evendorf	in	Piglets	5	10	25/3	25/4
Fattener employee J	GER	-	in	Visit of boxes ?	-	-	5/4	-
Fattener employee J	GER	-	in	Selection of piglets	-	boxes 1-2	12/4	-
D	54	Bertrameix	in	Piglets	1	46	13/4	25/4
K	57	Rodemack	in	Piglets	2	50	13/4	25/4
E	57	Rizing	in	Piglets	3	43	13/4	25/4
F	57	Kiersch-les-Sierk	in	Piglets	4	24	13/4	25/4
G	57	Evendorf	in	Piglets	5	11	13/4	25/4
L	57	Kiersch-les-Sierk	< 1 km	-	-	-	-	25/4
M	57	Kiersch-les-Sierk	< 1 km	-	-	-	-	25/4
N	GER	Kierf-Beuren	out	Piglets	1	150	15/4	25/4
OUTBREAK	57	Chemery-les-deux		1st clinical signs : 2 dead piglets		395	20/4	24/4

(*): (GER) = Germany ; (54) = Meurthe-et-Moselle, (57) = Moselle



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IV – Health protection measures

(enforced by the prefect, supervised by the vet services)

Restricted zones

04/26 :

↗ Surveillance zone (10 km) and protection zone (3 km)

04/29-05/10 :

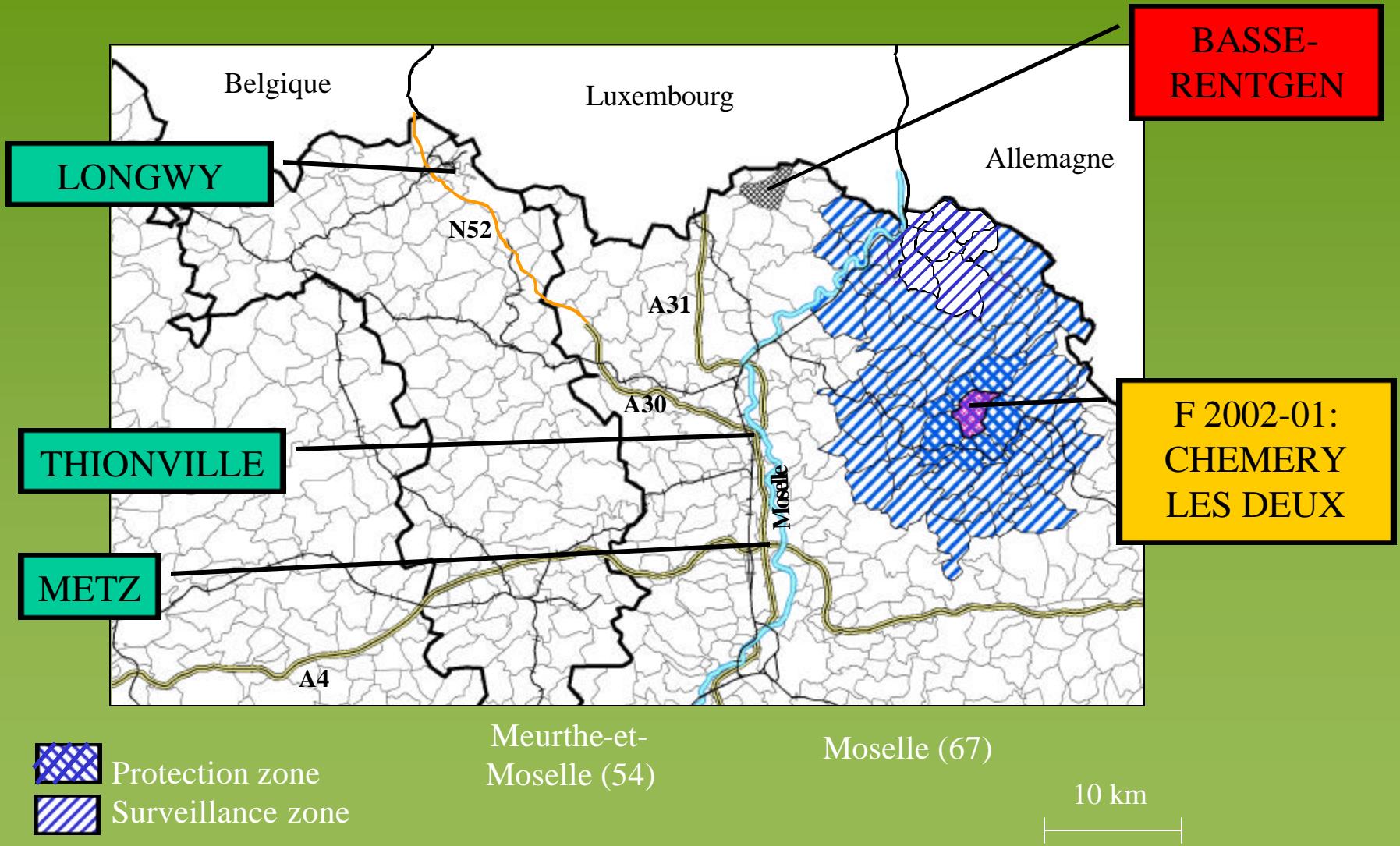
northern expansion (outbreak in Germany)

Regionalisation

04/26 :

Prohibition of expeditions of pigs out of the départements # 54 and 57

Protection and surveillance zones





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Consequences on movement controls

Departement level

Surveillance zone

TYPE OF HOLDING	CIRCULATION RULES	SANITARY RULES	CLEANING / DISINFECTION
Holding with pigs	PIGS, OTHER FOOD ANIMALS, MANURE Prohibition of movement or transport	Veterinary visit Immediate declaration to the veterinary services of any mortality or morbidity in pigs	Compulsory for vehicules going in or out a holding
Holding without pigs	No restriction		



Consequences on movement controls

Departement level

Protection zone

TYPE OF HOLDING	CIRCULATION RULES	SANITARY RULES	CLEANING / DISINFECTION
All	<p>PIGS Prohibition of movement or transport</p>	Veterinary visit Immediate declaration to the veterinary services in case of mortality or morbidity of pigs	Compulsory for vehicules going in or out a holding
	<p>OTHER SPECIES Movement submitted to autorisation of the vet authorities, Conditions : direct transport to</p> <ul style="list-style-type: none">• a slaughtering house• or a holding without pigs		
	<p>MANURE Prohibition of transport and spreading</p>		



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Consequences on movement controls

EU level

Commission decision 2002/383 of 23 May 2002

Conditions for intracommunity transport of pigs from parts of territories infected by CSF in the wild boar population

- General prohibition;
- Derogation for movements between infected areas in wild boar
- Conditions :
 - Clinical examination of pigs 24h00 before departure
 - Serological sampling 7 days before departure
 - Authorisation of the Member State of destination

FRANCE doesn't use this possibility.

No authorisation ever granted



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IV – Health protection measures

Sanitary protection of pig holdings

- April :
- . Double fencing of outdoor farms (2 in the dépt. 57)
 - . Information on the risk of swill (hunters)

Reinforcement of the CP against CSF in wild boar

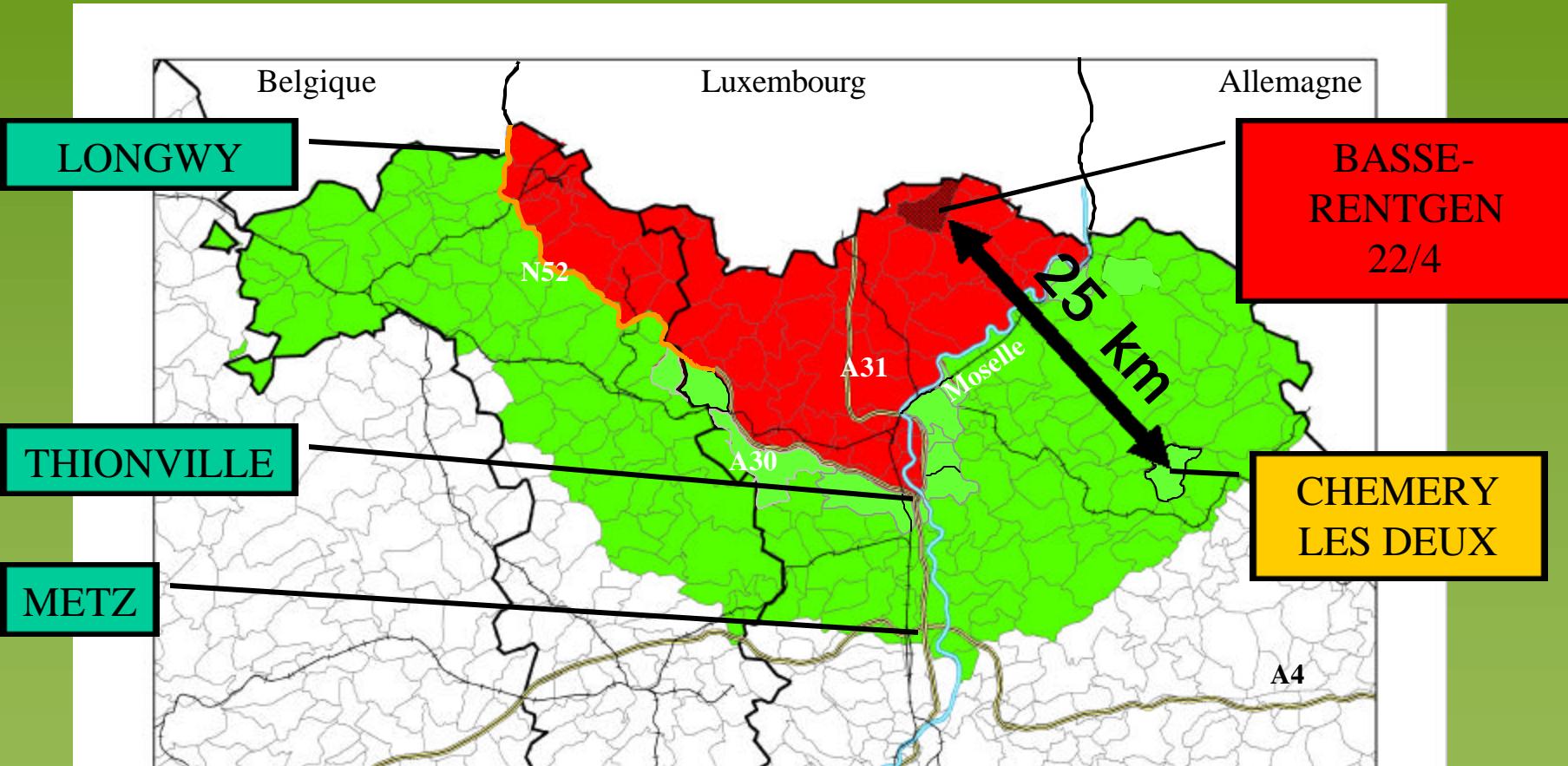
Beginning of April : Epidemiovigilance at the border was expanded

04/24 : Hunting with dogs is prohibited in the infected and observation zones



CSF in wild boars (04/04/02)

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■ Infected area
■ Observation area



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V - Chronology

05/03 : 1st cleaning/disinfection

05/17 : Lifting of the official surveillance of
contact holdings in 54

05/22 : idem 57

05/24 : Serosurveillance protocole in the ZS

06/03 : Serosurveillance protocole in the PS



V - Chronology

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05/27 to 06/04 :

- 120 holdings controlled in the SZ
- 775 pigs sampled/ 5292
- Negative results

05/03 to 06/06 :

- 12 holdings controlled in the PZ
- 58 pigs sampled/ 146
- Negative results

06/12 : No more restrictions applied

07/12 : OIE free status recovered



V - Chronology

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