

*Classical Swine Fever in two
professional holdings in Romania
SCFCAH, Brussels
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National Sanitary Veterinary and Food Safety Authority of
Romania



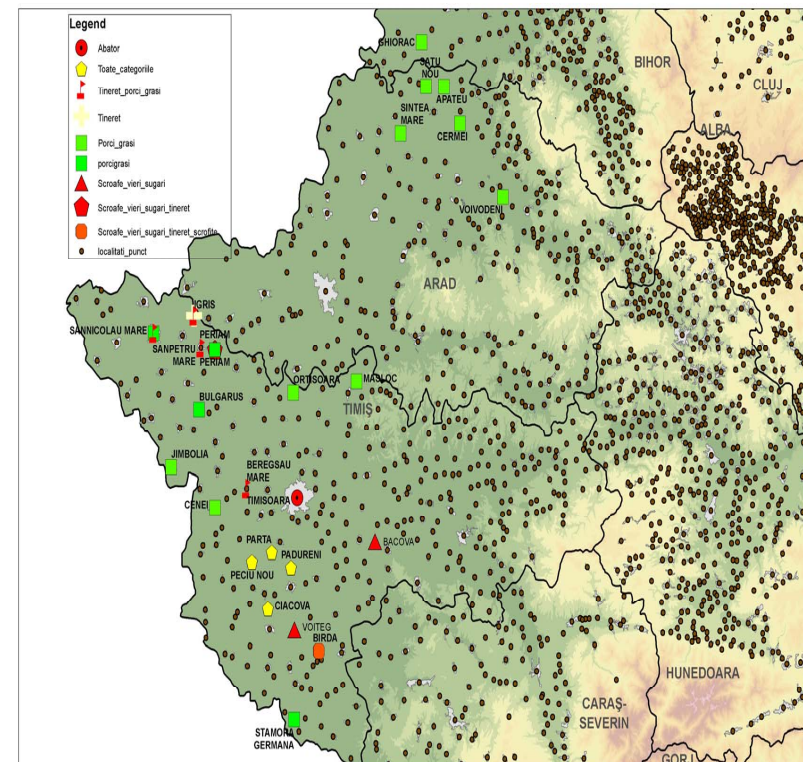


Summary

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Classical Swine Fever in two professional holdings in Romania

- ✦ Two outbreaks of Classical Swine Fever were confirmed in professional holdings in Romania, in Timis County, West of Romania in August 2007;
- ✦ 02.08.2007: Cenei professional holding;
- ✦ 06.08.2007: Igris 2 professional holding;
- ✦ Both holdings are part of the same corporation holdings (which has 33 professional holdings in three counties: Timis, Arad and Bihor);
- ✦ The rearing profile of corporation's holdings are: 3 for breeding pigs, 5 are mixed, for breeding and fattening and, and 25 are for fattening pigs.
- ✦ Flow of animals inside corporation can be seen in the Annex 1. Effectives can be seen in the Annex 2.



What revealed the initial epidemiological enquire

- ✦ Igris 2 holding has not sanitary veterinary approval for functioning;
- ✦ Deficient management at the level of all pig holdings;
- ✦ Poor bio-safety measures in both holdings: lack of fence in Igris 2 holding, lack of road disinfectors at the entrance in both holdings, lack of deratization and desinfestation activities in both holdings, free circulation of vehicles which transported feed, live animals, dead pigs etc, between the two farms, without disinfection be performed;
- ✦ Overpopulated shelters;
- ✦ Inadequate welfare conditions concerning ventilation of shelters, and deficient micro-climate;
- ✦ Lack of it's own incinerators in every holding; dead pigs from other holdings of the same corporation were brought in Igris 2 holding to be cremated;
- ✦ Uncontrolled circulation of personnel (personnel were brought from Igris 2 to Cenei to perform sanitary veterinary activities - treatments);
- ✦ Pigs movements took place from Igris 2 to Cenei in 6 and 20 of July;
- ✦ Only 10 from those 25 holdings in Timis County have sanitary veterinary approval and access at the national database for identification and registration so that the movement of pigs between corporation holdings were not notified to CSVFSD to be registered in database for identification and registration of animals; from this point of view, the database of CSVFSD Timis did not reflect the situation in the field.



Data concerning the high mortality signaled in the two farms during July

- ✦ 2995 pigs died in July in Cenei holding;
- ✦ The corporation notified to CSVFSD Timis the situation of dead pigs from Cenei, only when Romanian Government asked for the situation of loses due to the heat days in July; besides, in 19-th of July, the citizen of Cenei locality announced the CSVFSD that a very unpleasant smell come from that farms;
- ✦ The morbidity and mortality percent were initially attributed to the heat days and to poor welfare condition in shelters; the progressive number of dead pigs indicated that a contagious disease could be the cause;
- ✦ The primary results (in 27.08.2007) of samples taken from died and live animals, indicated other diseases associated with pig technology in Cenei holding: Salmonella spp, Pasteurella spp., Erisipelotryx rusiopatie, Clostridium sp. etc, then, in 02.08.2007, the CSF was confirmed;
- ✦ Following to first results in 27.08.2007, treatments were performed for Erisipelotryx spp for a few days before confirmation of Classical Swine Fever, and these treatments could contribute to the spreading of the disease.
- ✦ The programme for surveillance, control and eradication established through GD 1700/2006 was not entirely fulfilled, in accordance with the legislative provisions in force. The situation of samples tested following to declaring the disease in Cenei, can be seen in the next table

Situation of the surveillance program before CSF confirmation (1.01.2007 – 26.07.2007)

Name of holding	Category of pigs	Serological exams ELISA for marker vaccine			FAT			Imunperoxi-daze with monoclonal antibodies			RT-PCR on anticoagulant blood		
		T	P	N	T	P	N	T	P	N	T	P	N
S.C. Smithfield Farms LTD (33 holdings)	boars												
	sows										127		127
	Pigs elder than 4 month										399		399
Total holdings		526		526	263						526		526

Data about vaccination

- ✦ Vaccination began in 23 of December 2006 and continued until the end of May;
- ✦ All pigs introduced in both farms before 25 of May were vaccinated once; only pigs in 4 holdings from those 25 of Timis County received the booster dose.
- ✦ Total number of pigs in all 25 holdings since December 2007 until the end of May 2007 was of 670000, so as the vaccine received was not enough;
- ✦ The vaccination schedule used:
 - first dose at 28 days old; producer's indication is 7 weeks old with a booster dose after 28 days
 - booster dose at 50 days old;
- ✦ the vet of two holdings was not able to present sustaining records, to proof that the vaccination was done;
- ✦ Vet sustained that the vaccination of pigs in June and July ceased, because the lack of vaccine.
- ✦ The vaccination situation for which record are presented can be seen in the Annex 3, Annex 3b and Annex 4

Date when vaccine was received (doses)			
December	February	March	Total no. of doses
129 000	20 000	375 000	524 000



Which was the primary outbreak?

- ✦ Titer of antibodies found in pigs coming from Igris 2 was higher and elder than those from Cenei holding, and this indicate that primary outbreak is Cenei.
- ✦ The flow of animals between Igris 2 and Cenei, the fact that the Igris 2 professional holding has in vicinity a forest where wild boars live, the poor bio safety measures in the two holdings, the circulation of personnel between the two holdings, favorized the spreading of the disease in Cenei professional holding
- ✦ The way of introducing pigs in the two holdings can be seen in the Annex 4

Control measures in accordance with the Council

Directive 89/2001/EC provisions

- ✦ **establishing of the protection (3 km) and the surveillance (10 km zone);**
- ✦ **restrictions on movement of animals, peoples, vehicles which transport live animals, feed, corpses and semen, between the holdings of the corporation;**
- ✦ **the setting-up of check points on public roads and at the entry in farms, by the County Police Inspectorate and County Ranger Inspectorate Timis and Arad;**
- ✦ **Evaluation of the animals in Cenei and Igris 2 holdings in view of compensations;**
- ✦ **checking of the immunization actions proceeded in all holdings, and of the health status;**
- ✦ **sampling for diagnosis in all corporation: 4752 samples were sampled from 25 holdings, and tested serologically and virologically at the Institute for Diagnosis and Animal Health, and at the county veterinary laboratories Timis and Arad; no other sample were found positive; data about samples tested are in the Annexes 5, 6, 7 and 8**
- ✦ **samples were harvested and send to the Community Reference Laboratory Hanovra, for genotyping; sequences was made also at IDAH, and the conclusions were that the strain of virus was those already known on Romanian territory: the Rostok strain of virus**

Destroyed animals up to now

- ✦ 7000 pigs were destroyed up to 21 of August 2007; they were cremated, and ash buried in three empty pools in Cenei, and a trench, in Igris 2;
- ✦ The deadline fixed by LDCC for killing and destroying all pigs is 28 of August 2007;
- ✦ Some problems were met concerning the neutralizing the corpses, and this is why the process of killing animals were slow down, but this is on the way to be solved.

New outbreak in Igris 1 professional holding confirmed yesterday

- ✦ Confirmation came from IDAH in 22.08.2007;
- ✦ Confirmed through FAT method, RT-PCR from organs and RT-PCR from blood sampled on EDTA
- ✦ Igris 1 farm has a herd of above 15 700 fattening pigs, 11 848 pigs vaccinated with a first dose of marker vaccine;
- ✦ 355 pigs died in Igris 1 holding between 18-23 of August (see Annex 9)

Thank you for listening!



Questions?