

Contents

- 1. Introduction
- 2. The questions & the answers
- 3. Conclusion

ntroduction

A few words about *Pig Progress*

Introduction

- 45 years old
- History & Journalism (Netherlands)
- Postgraduate Newspaper Journalism (UK)
- College teacher (2002-2003)
- Local journalism (2000-2005)
 - De Twentsche Courant Tubantia
 - Provinciale Zeeuwse Courant
- Trade journalism (2005-2022)
 - Pig Progress









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PIG PROGRESS

Should there be fear of tropical pig diseases?

The outbreak of the tropical bluetongue disease in Western European cattle and sheep herds, rose the question if the outbreak could be related to global warming. For sure, the Netherlands have their plans listed, in case African Swine Fever would hit Northern Europe.

By Vincent ter Beek

nyone in livestock industry held his breath when in August 2006, news of a bluetongue outbreak in the south of the Netherlands was made public Quickly, the tropical sheep and cattle disease, transported by midges, was reported on farms in Belgium. Germany and France as well.

Both the virus, being a tropical one, as the variety of the virus puzzled scientists - as this one had only been reported south of the Sahara and Inthe Caribbean - but not in Europe. "Quite frankly, for this specific Dutch vet, to realise that the disease he



Dr Piet van Rijn: "My main concern for western and northern Europe for ASF would he Sardinia"



Soft ticks can be long-term reservoirs for African Swine Fever. In ticks, the virus can be transmitted from generation to generation, waiting for a wild boar or pig to take a sand bath. (Photo: Institute for Animal Health, UK)

found in a sheep herd could be bluetongue Instead of Foot-and-Mouth Disease - and had it sent for testing for bluetongue, was an extraordinary move. It takes some experience to think of bluetonque when you don't expect it." Said Dr Plet van Rijn, protect leader for exotic viral diseases at the Central Institute for Animal Disease Control (CIDC) part of Wageningen University Research Center, the Netherlands, Usually, this department is focusing on several different exotic diseases in the Netherlands, but in August 17th, 2006, all signals went red alert, and concentrated only on bluetonque. Eventually, Northern Europe reported 2,000 holdings infected and also the disease was reported as far off as Bulgaria by antmals having antibodies specific for this type of bluetongue

Propelled by Al Gore's film An inconventent Truth, several media have linked the emergence of bluetongue to global warning. For Van Rijn, this is too

hasty a conclusion, saying: "I am not a climatologist but the least one can say is that the very hot summer in Europe in 2006 was too a-typical to speak of a pattern in climate change." However, what does worry Van Rtin about the bluetongue epidemic is that a tropical livestock disease can spread in Northern Europe. "It shows that apparently for that, the climate is good enough."

The CIDC compiled a list of tropical

diseases that, just like bluetongue, could hit the livestock industry unexpectedly and should be carefully surveilled, as they are highly contagious. Apart from bluetongue, African Horse Fever is listed, and, for pig producers extremely interesting, African Swine Fever The last disease is in parne and clinical symptoms similar to Classical Swine Fever (CSF), although casualties are usually more likely, but the diseases are not related in their origin (see Table 1). Main difference to CSF is the

way the ASF virus is transported: not only through pig-to-pig contact, but also through a vector, in this case soft ticks (Ornithodoros moubata), making the cause of the disease rather hybrid. "Outbreak of ASF in northern Europe

is in some way less likely than in blue-

tongue as it is not carried by flying insects but by non-flying ticks," Van Riin says, "However, there are other ways of Infection, In 1985-86 in the Netherlands and Belgium there was an ASF outbreak due to contaminated swill." It remains to be seen if the cold northern European climate would be suitable for ASF carrying ticks to survive, even if the climate is going to change as some infer. Soft ticks prefer a minimum temperature of 17°C during the night but shun daylight - this would suggest they could survive inside a European pig house rather than outside. Anyway, Van Ritn says, If an ASF outbreak would take place, is would not be ticks being its cause. "My main concern for western and northern Europe in this respect would be the Italian Island of Sardinia, as that is the only place in Europe where ASF is virtually endemic. Many people on the Island have backyard pigs - the insects gutckly tump on wild boars. Exports, legal or not, to the rest of Italy could do the rest." In recent years, an ASF outbreak was only reported in Portugal (1999), in which 44 animals had to be slaughtered; this outbreak did not have any major consequences. Van Riin says he does not dare to think of what could happen If an outbreak could spread through Europe. "Theoretically, the disaster could be enormous. A doom scenario would be if the disease would enter an Al station, allowing it to spread to breeding farms very quickly. In that case it would spread very fast and have loads of consequences."

In the European Union, legislation has been drawn up, to take care of a posst, ble African Swine Fever outbreak, by Council Directive 2002/60. This directive rules that, similar to outbreaks for Classical Swine Fever, authorities should be noted, necessary Protection Zones (3 km) and Surveillance Zones (minimum 10 km) should be impost-

Table 1. African Swine Fever vs Classical Swine Fever.

The name suggests a coherence between African Swine Fever and Classical Swine Fever, but the diseases are only connected through their name

1.000	African Swine Fever	Gassical Swine Fever
Also known as	Warthog fever	Hog cholera
First recorded	1921, Kenya	1830, Ohio, US
Endemic in	Africa, south of the Sahara, mainly Mozambique but also	Asia, Central & South America, parts of Europe & Africa.
	Togo, Madagascar, Benin; Sardinia (Italy)	USA, Australia and Canada are free of CSF, just like Ireland,
		Scandinavia and New Zealand
Clinical signs	Fever, skin lesions, convulsions, death in young	Fever, skin lesions, diarrhoea, convulsions, dyspnoea, death
	animals, abortion - usually to a heavier extent than CSF	in young animals, abortion, mammies
Caused by	African Swine Fever Virus (Asthvirus)	Classical Swine Fever Wrus (Pestivinus)
Type of virus	Large DNA virus, 150+ genomes	RNA virus
Transmission	Contact; Infected meat; fornites; ticks (Ornithodorus)	Contact; infected meat; fornites
Cure/treatment	No effective treatment; slaughter is necessary	Vaccination is possible - not allowed in the EU however,
		there is no effective treatment

tioned around the centre of the outshould be slaughtered, their premises cleansed and feral pigs surveilled. In addition, the Netherlands' ministry of Agriculture, Nature and Fisheries drew up a minute emergency plan for an ASF outbreak. In it, detailed plans are put down for authorities and Institutions on how to handle in case of suspicton of an outbreak or when an outbreak is reported - either in the vant foreign country. Van Ritn: "We made a similar plan for a bluetongue outbreak and last year it was shown that this kind of approach is definitely very helpful. We received a lot of praise for the way the Netherlands dealt with It. Even Germany made use of It."

in 'peace time', when no major livestock outbreaks hit the news, several other exotic diseases are studied at CIDC in Lelystad, for instance to gain more knowledge on ASF. Up until now, no vaccine has become available for the disease. On one hand this is due to the fact that the ASF virus is a virus with a huge DNA genome, meaning that research is rather complex. On the other as the disease has not been existing in major pig production areas, the return of investment is too low for large companies to set up broad scale research. However, it is not difficult to imagine a climate change in this

respect, because only one outbreak can change that picture. "One year before the FMD outbreak in 2001. some European governments were wondering whether we should carry on doing these kinds of research at all. One year later, after FMD, we knew we definitely should!" Bluetongue once more proved constant surveillance continues to be of major importance Now 'peace time' is back again; for pig production it is hoped a treatment or vaccine for ASF can be developed before the disease finds the main European pig production areas. PP

In June, ASF hit the country of Georgia. For a full acmost check the news section on page 6 and 7

Global efficiency network

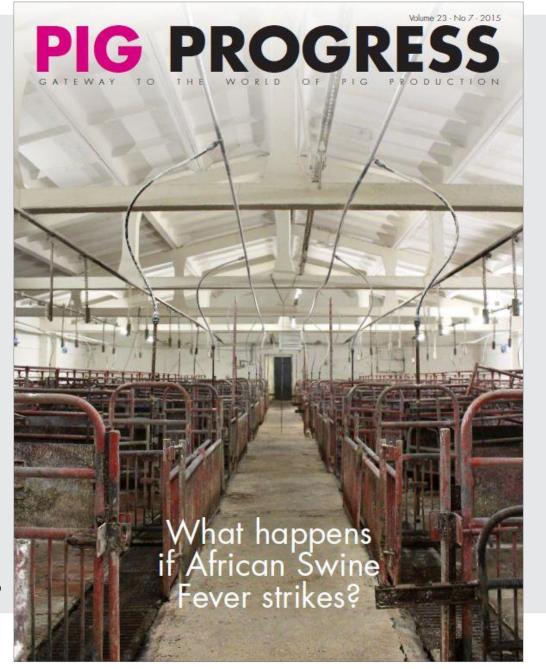
and Control) is a new, EU guided association to increase coopera-

EPIZONE (Network of Excellence for Epizootic Disease Diagnosis 📙 🔛 tion between the several member states in the field of animal health

and diseases. On its website (www.epizone-eu.net) it says that the authority wants to improve research on preparedness, prevention. detection, and control of epizootic diseases within Europe to reduce the economic and social impact of future outbreaks'. Altogether, it includes 20 Institutes acrosss 13 countries, including China, France, UK, Germany the Netherlands, Turkey, Poland and Spain, Together they hope to help and create a synergy and to find out where gap management should focus on. Final aim is to fadilitate knowledge transfer. For ASE especially Spain and the UK are nuclei of knowledge, of which other member states could profit.

Pig Progress 23.05 (June 2007)

2 PIG PROGRESS Volume 23, No. 5 2007 www.PigProgress.net PIG PROGRESS Volume 23, No. 5 2007. 3 www.PigProgress.net



Cover, September 2015

PIG PROGRESS

My questions

- 1. Why is African Swine Fever so dangerous?
- 2. Will the problem of ASF be something of the past soon?
- 3. How quickly does ASF spread in wild boar?
- 4. Will ASF come to the UK?
- 5. What do the authorities have to do to keep ASF out?
- 6. Imagine, an infected wild boar gets found in the UK, then what?
- 7. What can you as pig farmers do to keep ASF out?

Question 1



Why is African Swine Fever so dangerous?

- Virtually 100% mortality.
- The virus is a super-spreader.
- There is no vaccine.

	African Swine Fever	Classical Swine Fever (hog cholera)
First recorded	1921, Kenya	1830, Ohio, USA
Endemic in	Sub-sahara Africa and Sardinia	Asia, Central & South America, parts of Europe & Africa
Clinical signs	Fever, skin lesions, convulsions, death in young animals, abortion, usually to a heavier extent than CSF	Fever, skin lesions, diarrhoea, convulsions, dyspnoea, death in young animals, abortion, mummies
Caused by	African Swine Fever virus (Asfivirus)	Classical Swine Fever virus (<i>Pestivirus</i>)
Type of virus	Large DNA virus, 150+ genomes	RNA virus
Transmission	Contact; infected meat; fomites; ticks (<i>Ornithodoros</i>)	Contact; infected meat; fomites
Cure & treatment	No effective treatment; culling is needed	Vaccination is possible – not allowed in EU; no effective treatment





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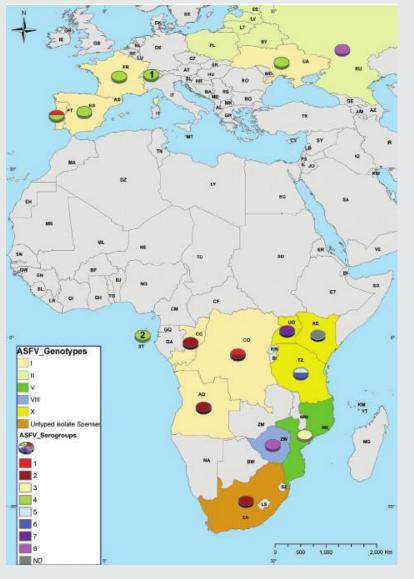


Sourd Lina Mur, Aversidad Complutense, Madrie

Source: Prof Iwona Markowska-Daniel, Warsaw University of Life Sciences, Poland

- At least six genotypes
- Endemic in sub-Saharan Africa
- Genotype I spread out over western Europe (and the Americas!) from 1957 until 1995
- Currently genotype I still endemic at Sardinia
- Currently **genotype II** all over the planet

Source: Magolovkin, A. et al, Comparative Analysis of African Swine Fever Virus Genotypes and Serogroups, Emerging Infectious Diseases, Feb 2015.





African hut tampan/ Eyeless tampan (*Ornithodoros moubata*)



Wild boar (Sus scrofa)

Why is African Swine Fever so dangerous?

Virtually 100% mortality.

The virus is a super-spreader.

 \checkmark There is no vaccine.

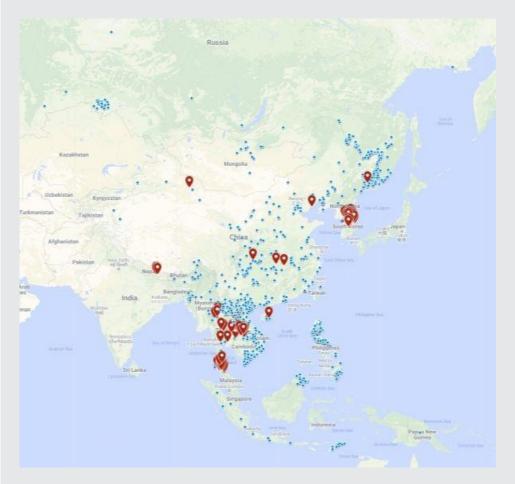
Question 2

Will the problem of ASF be something of the past soon?

Yes.

No.

Impossible to predict.



2017 March Asian Russia

2018 August China

2018 December Taiwan (islands)*

2019 January Mongolia2019 February Vietnam

2019 March Cambodia

2019 May Hong Kong

2019 May North Korea

2019 June Laos

2019 July the Philippines

2019 Augustus Myanmar

2019 September Indonesia

2019 September East Timor

2019 September South Korea

2020 March Papua New Guinea

Bhutan

2020 May India

2021 February Malaysia

2021 May

2022 January Thailand**

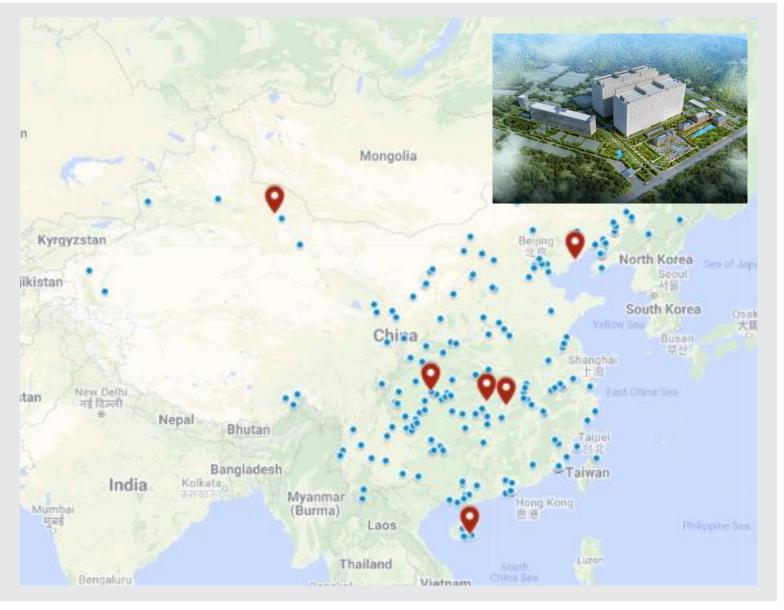
2022 May Nepal

* Washed ashore; no official report to WOAH/OIE

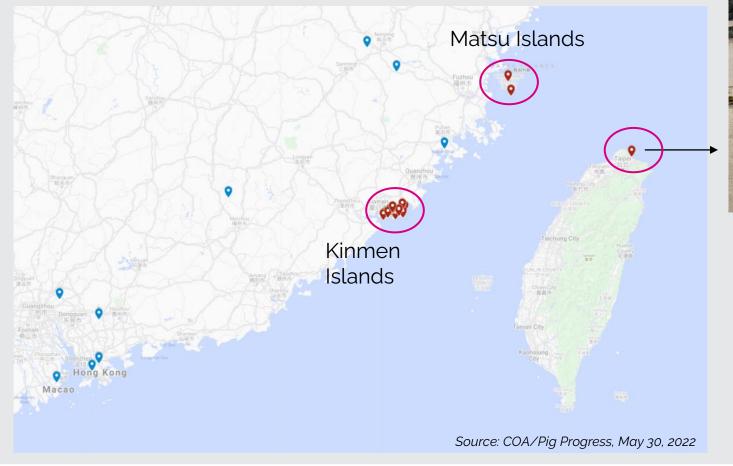
** Virus was probably around many months before



- First outbreak in 2018
- Outbreaks in all provinces
- Total herd (2017):
 441.6 million (FAO)
- Total herd (2018):
 428.2 million (FAO)
- Total herd (2019):
 310.4 million (FAO)
- Total herd (2020): 406.5 million (FAO)
- 206 outbreaks officially reported (MARA/OIE)
- Severe underreporting
- Rapid reconstruction





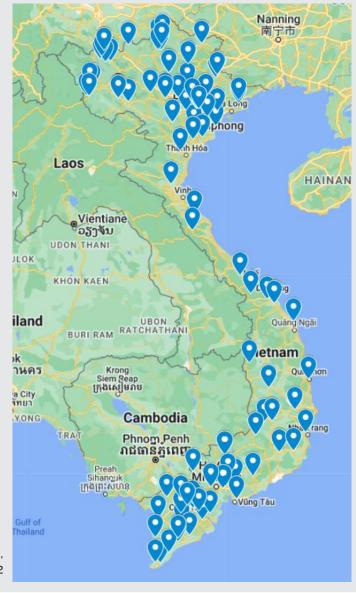




- No ASF on farms or in live pigs
- 16 pigs **washed ashore**, 2018-2022
- Found April 2021 how?
- Proves severe underreporting

- First outbreaks in 2018
- Vietnam only reports per province, so 63 dots
- 47 provinces infected in 2022 (FAO)
- Total herd (2018): 28.2 million (FAO)
- Total herd (2019): 19.6 million (FAO)
- Total herd (2020): 22.0 million (FAO)
- Total herd (2021): 28.0 million (MARD)
- Outbreaks still occurring Sept/Oct 2021, 280,000 pigs culled (GAINS).
- Rebuilding the pig industry fast
- First vaccination project (USDA)

Source: WOAH/OIE, Pig Progress, July 17, 2022





Spain: 1960-1995

- Endemic
- Virus came in waves
- Farmers got used to it
- Eradication cost 15 years, 1980-1995
- Much research to ASF

Research

- The Pirbright Institute, UK
- Kansas State University, USA
- Severo Ochoa Molecular Biology Center, Spain
- Plum Island Animal Disease Center, USA
- Vacdiva project, EU
- Harbin Veterinary Research Institute, China
- Navetco, Vietnam



Will the problem of ASF be something of the past soon?

___ Yes.

√ No.

Impossible to predict.

Question 3



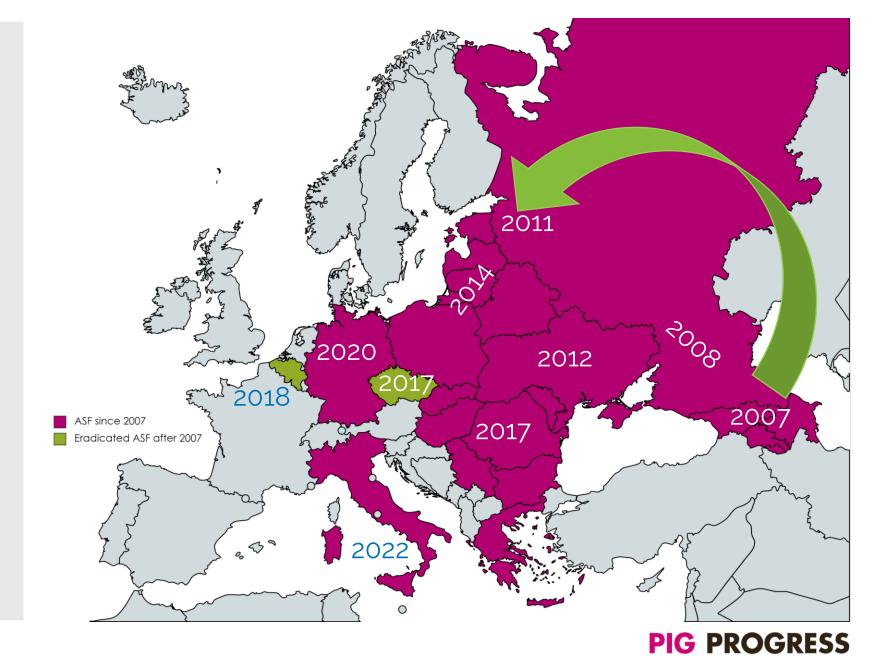
How quickly does ASF spread in wild boar?

It spreads like wildfire.

About 10 miles/month.

Depends on human behaviour.







"We overestimated the contagiousness of African Swine Fever. The disease moves very slowly. When looking at affected wild boar populations, most of them have not been significantly reduced. The virus doesn't spread that quickly at all."

Dr Klaus Depner & Dr Sandra Blome, Friedrich-Loeffler-Institut, Insel Riems, Duitsland (2015)



"Wild boar shed the virus mainly when they are very sick and in the final stage of the disease. When the animals have high fever it's in their character to stay where they are, and they are certainly not going to walk very far when they feel bad."

Dr Klaus Depner & Dr Sandra Blome, Friedrich-Loeffler-Institut, Insel Riems, Duitsland (2015)

- Predicting and analysis with large amounts of data.
- Virus spreading at 124 miles/year (or 10 miles/month).
- That meant that ASF could reach Germany by 2022.
- Model did not include the role of human behaviour.
- Emphasised the role of migrating farm staff.



African Swine Fever can be in Germany in 4 years

According to a computerised model, African Swine Fever will reach wild boar populations in Germany in about 4 years. That – and more updates – became clear at the recent edition of the International Pig Veterinary Society (IPVS) Congress, held in Chongqing, China, 11-14 June.

The IPVS congress, which drew a whopping 5,500 veterinarians from predominantly China, touched on a range of different topics – and a series devoted attention to the growing problem of African Swine Fever (ASF) in Eastern and Middle Europe.

Early warning analysis

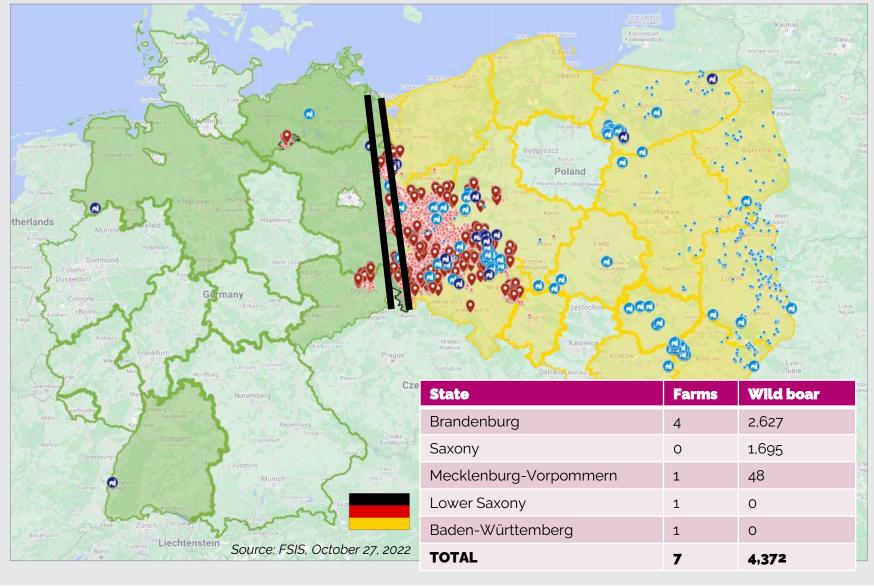
Interestingly, the Polish researcher Andrzej Jarynowski of the Interdisciplinary Research Institute in Wroclaw, Poland, introduced an early warning analysis for ASF propagation in this area of Europe. On the basis of older outbreaks the team wanted to predict where and when outbreaks will take place in the future.





- Eastern Poland: 2014
- Western Poland: Nov 2019
- Eastern Germany: Sept 2020
- Western Germany: May 2022
- Infected farms Germany:
 - 2 backyard farms
 - 2 outdoor farms
 - 3 commercial farms

Source: OIE/FSIS/FLI/MSGIV/GVI Pig Progress, July 17, 2022



How quickly does ASF spread in wild boar?

- It spreads like wildfire.
- About 10 miles/month.
- Depends on human behaviour.

Question 4

Will ASF come to the UK?

Most certainly.

Absolutely not.

There's a good chance.





- Number of producers (pre-ASF): 25,000
- Industry size (pre-ASF): 1.8 million head
- Industry value (pre-ASF): US\$700 million
- Backyard % (pre-ASF): 35% of producers
- Date of ASF entrance: July 1, 2021
- Number of provinces infected: 29 out of 32
- Outbreak locations documented: ~1,000 (March 2022)
- Cull numbers due to ASF: 180,000 pigs (March 2022)
- **Reduction** of the pig herd: 25% (est.)
- Compensation paid: >US\$22 million (March 2022)
- Inconsistent infection pattern (USDA-ARS)



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considered Trial in more. It was the Park and the

vereinant or rancoop orace emis, pressent or the Johnson can Federation of Pig Producers, and Professor Joaquin Paulino, attached to the agricultural university ISA in Santiago de los Caballeros, are two of the agricultural leaders who have watched

INTERVIEW >>>



Also are the largest. Dr. Issael Birito Prof. Joaquin Paulino Of those, 90% were sm - and those are the ones that have been affected harders. "The largest lies in the Demission Republic has 2,000 loos." Just bloom Mr. have an eventure district most limit are than the property of the pro

Is it possible to tell where the virus came from? To which strain does it have most resemblance?

strain does if have most relembanice.

Dri facel filtri. There are listoratory results. We are collabor with the reference laboratory in Plum Stand in New York. I agnostics of the identification of the visus showed that it con from Russia, according to the experts. In fact, at the momentum of the contract of the cont

Three strains? Would that mean that there has been in than one infection, or has the virus mutated on the isla Dr tracel listor. "At the moment we haven't determined wheth there has been a mutation in the Omniscan Republic. We do know that we have cases where the virus had very low patthe gerickly, very different to occasions where the virus was very lent. That is what dot so to believe we have more than one sto

What has been the effect of ASF on swine producers – do they still see a future for themselves?

De Israel Birlo: "At the moment many smaller producers have the industry. Medium producers have decreased production, and larger producers have also decreased production because the fear of the disease getting onto the farm. And at the moment I don't think there is any body who is willing to invest in the industry."

What has been the effect of ASF on pork prices in the

Dr Isaac Binto: "In March 2022, prices were 9th higher in comparison to when AFF showed up in the Dominican Republic, Initially, as a consequence of the virus, the prices dropped by 20th because there was a significant depin consumption, After that price levels were tup again; that was mostly due to a significant reduction of price on the market. Now consumption is back to normal. That the prices are higher than before is related to the higher price of are marketish."

Prof Paulino: 'This recuperation of consumption is related to a campaign of making customers aware through radio, television newspapers and all social media networks, set up by the Minist of Agriculture. It is aimed at making the end user understand

And now the amount of pork on the market is the same again?

again?

Dr Israel Brito: "At this moment the amount of pork in the

► PIG PROGRESS | Volume 38, No. 3, 2

Pig Progress, April 2022





Americas - Dominican Republic

"We have various direct flights with the United States, as well as Panama, the south of Mexico, Chile, Colombia, Costa Rica and Venezuela. But basically the main communication is with the United States, where about 2 million Dominicans are living."



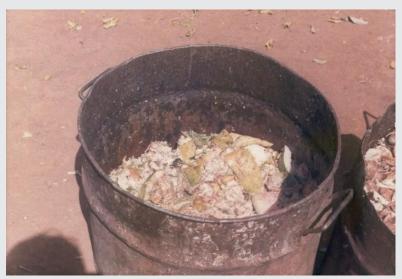
Dr Francisco Israel Brito, president, Dominican Federation of Pig Producers



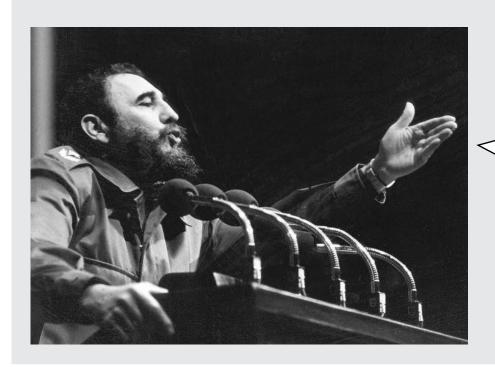
Prof Joaquín Paulino, Agricultural University ISA

"If ASF would leave the country, it would go on to affect more than 15 million sows, and around 250 to 300 million pigs would be affected. That would be a catastrophic economic loss not only for the American continent but also for the entire world and would also lead to unemployment."





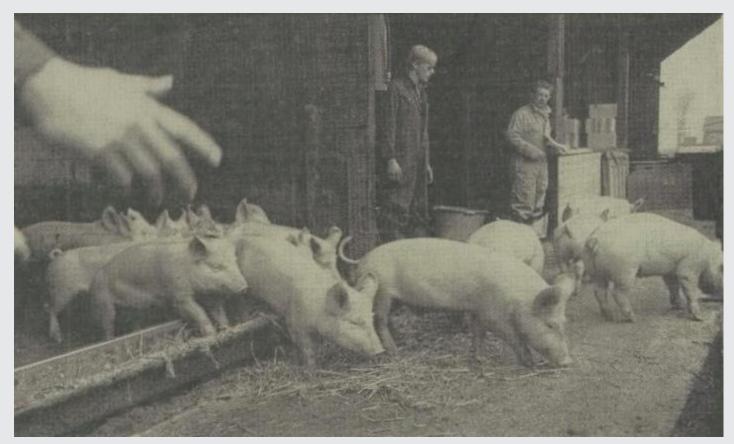
Airplane feed photographed on a farm near Paracambí, RJ, Brazil, 1978.



"We believe that it is probably attributable to a phenomenon that has been growing in recent years, and that is the dozens of boatloads of Haitian immigrants that have headed to the Bahamas, the US and elsewhere. And they arrive on these ships, often in poor condition and without fuel. [...]

Sometimes they carried live animals and food, etc., and given the health conditions in the country, that is a risk even for public health."

- Also outbreaks in the Netherlands (Zoetermeer, early 1986)
- Feeding kitchen waste
- Two pig farms infected (800 yards in between them)
- 14 farms had animals culled (>5.000 pigs)
- Damage: 30 million guilders/week (£8.4m/week in 1986)
- October 1, 1986: free from ASF again



Leidse Courant, April 2, 1986

Will ASF come to the UK?

- Most certainly.
- Absolutely not.
- \checkmark There's a good chance.

Question 5

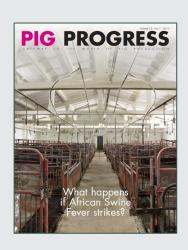


What do the authorities have to do to keep ASF out?

- Create more awareness.
- Preventive culling of all wild boar.
- Enhance security at ports of entry.











Claus Baltsersen, CEO Idavang





"I have never seen anything like that. All you can do is just talk about it. Sows, good normal sows, suddenly breathing heavily. You know they are dying, they are suffering. We knew it must be a swine fever. They must have had blood exploding in their organs. If it is in the heart – they will die immediately. If it is in other organs, they die slowly – you just see it in their eyes."

Claus Baltsersen, CEO Idavang

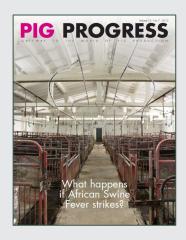




"In hindsight and from a distance, the cause of the deaths might seem ubiquitous. At that time, however, nobody thought that ASF really could be true. In the past, his farm has even been used as an example by the Lithuanian state vets to demonstrate how well biosecurity should be applied. So I was sure that ASF would not be able to get into the farm."

Claus Baltsersen, CEO Idavang





"The outbreak started in one of the weaner pens, in the middle of the farm. That's why I think it must have been caused by bugs or insects – e.g. horse flies. There were a lot of them in July 2014. [...] Our theory is that there must have been a dead wild boar laying outside the farm. Some insects must have visited it and then came into the stables, stinging one of the pigs."

PIG PROGRESS

Manure processing French cooperative Cooperl takes steps to make manure disposal profitable

Algae Seaweed - advantages also include gut well-being and increased fertility ASF in Europe
Relive the debate held
at the ESPHM in
Utrecht, the Netherlands

PIG PROGRESS



Cover, July 2022

PIG PROGRESS

Top pictures: Prof Iwona Markowska-Daniel, Warsaw University of Life Sciences (SGGW), Poland









Bottom pictures: Petr Šatran, Czech State Veterinary Administration

Across the ocean ASF in the Americas is not science fiction at all

Innovative pig house
Farm with manure slide,
mono-fermenter and
re-use of vegetables

Breeding
Data-based model to
avoid chromosomal
defects

PIG PROGRESS

Volume 36 - No. 1 - 2020 How to avoid the entry of ASF?

Cover, January 2020

PIG PROGRESS







What do the authorities have to do to keep ASF out?

Create more awareness.

Preventive culling of all wild boar.

Enhance security at ports of entry.

Question 6



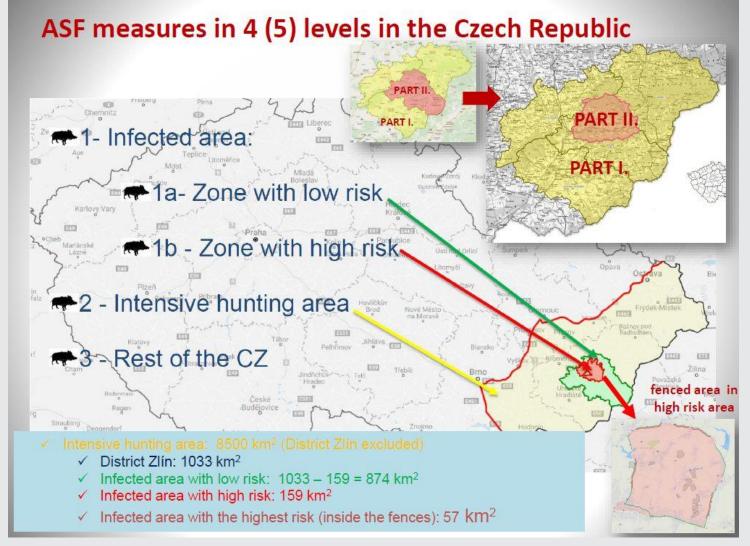
Imagine, an infected wild boar gets found in the UK, then what?

- Discrete disposal of the carcass.
- Culling all wild boar after all.
- Zoning and intelligent hunting.



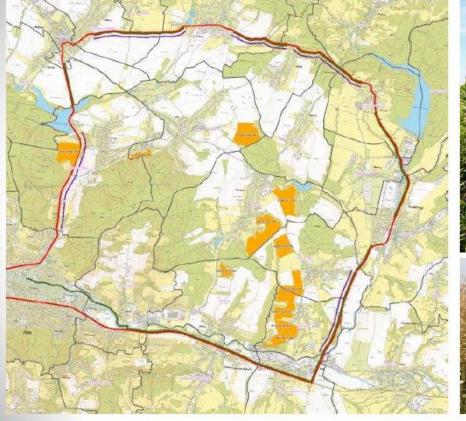


Source: African Swine Fever in wild boar in the Czech Republic (25 februari, 2019)





Higher risk area (fenced area) - unharvested fields left







Source: African Swine Fever in wild boar in the Czech Republic (25 februari, 2019)

115 hectares of unharvested fields (rape, maize and wheat) were left for wild boars providing both food and shelter

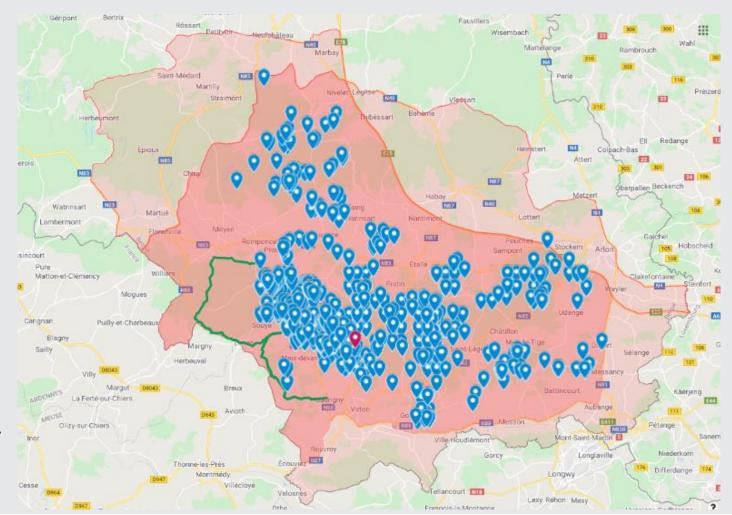


- The virus went around between June 2017 and April 2018.
- One of two EU countries declared free from ASF.
- All outbreaks took place around the city Zlin.
- No domestic pigs got infected.
- Between 220-230 dead wild boar were found testing positive for ASF (WOAH/ Czech data).
- Intelligent hunting.
- Key factors: Dedication, focus, cooperation and compensation.
- Important: role of human behaviour.



Belgium: 833 ASF victims amongst wild boar

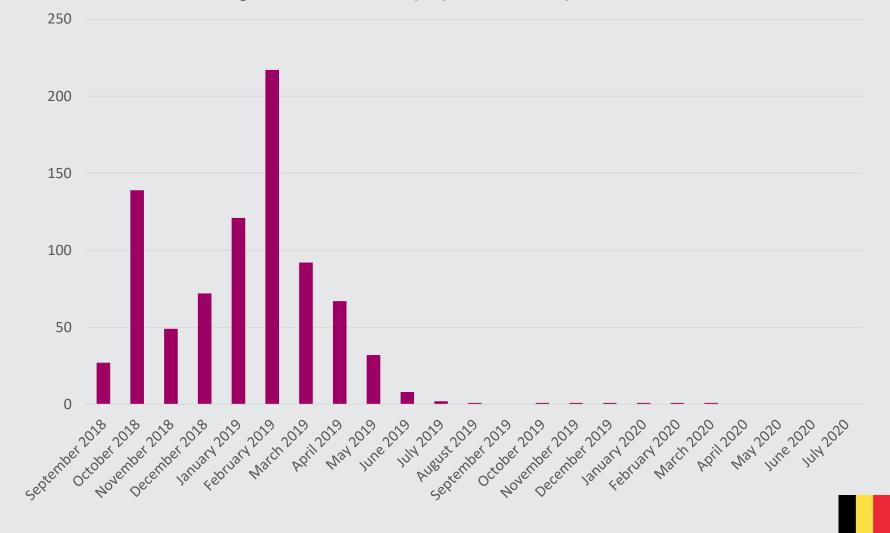
Pig Progress, January 24, 2020







ASF in Belgium's wild boar population, Sept 2018-June 2020.





- Virus in Belgium: September 2018 March 2022.
- All outbreaks in **Luxembourg** province.
- No domestic pigs got infected.
- About 4,000 domestic pigs were culled for preventive reasons.
- Altogether 833 infected wild boar were found (WOAH/EU).
- Zoning and 300 km fencing according to EU regulations.
- Shooting of wild boar started in June 2019.
- Trade with "third countries" fell away → halving of export volume.
- Producer: For 1,000 finisher pigs earned €5,000 (£4,400) per week less.



Imagine, an infected wild boar gets found in the UK, then what?

- Discrete disposal of the carcass.
- Culling all wild boar after all.
- Zoning and intelligent hunting.

Question 7



What can you do as pig farmer to prepare against ASF?

- Nothing I'm insured.
- Build an (extra) fence.
- Biosecurity, biosecurity, biosecurity.

"The Fortress Farm"



John Gadd



- Reduce pig-to-pig contact
- Perimeter fence with camera and microphone
- Limit visits to the farm
- Shower in/out
- How are deliveries accepted?
- Replacement stock needs strict discipline
- Sanitation of vehicles
- Proper use of clothing and footwear
- Fly control
- Use of detergent and disinfectant
- No visits to areas where ASF is in progress

What can you do as pig farmer to prepare against ASF?

Nothing – I'm insured.

Build an (extra) fence.

Biosecurity, biosecurity, biosecurity.

Conclusion

Key take-aways

- ASF has near 100% mortality and there is no vaccine (yet)
- ASF is likely to stay around for a while
- In wild boar ASFv spreads slowly, but humans can make it fast
- It's definitely feasible ASFv will cross the Channel
- Awareness and preparation is essential
- Tackling ASFv requires cooperation, transparency and efficiency
- Biosecurity should be top of mind for producers to keep ASF out

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