Do we know ASF well enough?

ASF forum, Ottawa, Canada, 29 April-1 May 2019
The OIE Mandate

- Transparency (WAHIS)
- International Standards and Guidelines
- International Solidarity
- Strengthen Veterinary Services
- Food security
- Animal Welfare
Official ASF notification
Official ASF notification

Number of countries and territories reporting the disease present

% affected countries and territories

Countries and territories reporting the disease present

% affected reporting countries and territories
ASF clinical signs

Video to be inserted
Pig density (2015)

Dirk Pfeiffer, based on data from: Gilbert, Marius; Cinardi, Giusepina; Zhao, Qingyou; Tago, Damian; Robinson, Timothy, 2019, "New global pig data in support of the African Swine Fever epidemics", https://doi.org/10.7910/DVN/JEV3WA, Harvard Dataverse, V1
Pork meat production 2017

93,3 Million Tones

- Most consumed animal protein (37%)
- Food security
- Source of income (school, health)
- Culture: (豕,豕)

Source: FAOSTAT
Global trade (2018)
## Top pork exporters (2017)

<table>
<thead>
<tr>
<th>Top 5</th>
<th>Value</th>
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<tbody>
<tr>
<td>1 United States</td>
<td>$5.9bn</td>
</tr>
<tr>
<td>2 Germany</td>
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</tr>
<tr>
<td>3 Spain</td>
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<td>4 Denmark</td>
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Source: Chatman House
Top pork exporters (2017)

**TOP 5**
1. United States  $5.9bn
2. Germany       $5.9bn
3. Spain         $4.9bn
4. Denmark       $3.2bn
5. Canada        $3bn

**FASTEST GROWING**
1. China, Hong Kong SAR   +252%
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Source: Chatman House
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<td>3 Philippines</td>
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Source: Chatman House

Source: World Integrated Trade Solution
Pig Value Chain, Bac Giang Province, Viet Nam

Pig value chain flowchart in Taian (Liaoning, China)

Weaners from other 41 counties in Liaoning and Jilin province

Finishing pig from Jilin province and other districts in Liaoning

Finishing pig moved to Beijing, Anhui, Zhejiang, etc. 8 provinces

Meat sold to Beijing, Henan, Chongqing, etc. 16 provinces

Meat introduced from other 8 prefectures in Liaoning and Jilin

Middlemen for weaners: 9 persons

Middlemen for finishing pigs: 92 persons

2 wholesale markets for finishing pig:

• 5830 farms: 65% is fatten type, 35% is self-bred-and-self-raising type
  • Inventory: 0.28M
  • Annual slaughtering: 0.5M

• Abattoirs: 1 large-scale and 6 small-scale
  • Annual slaughter: 0.6M

Local restaurants, supermarkets, schools and consumers, etc.

Taian county of Liaoning

47500 tons

4500 tons

400 tons

600 tons

5830 farms

Abattoirs

Local restaurants, supermarkets, schools and consumers, etc.

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Integrated pig–fish–duck–vegetable system (SEA)

Wild boar population
Pig Swill or Food Waste
Unprecedented virus load in the field?

**African Swine Fever detected in travellers’ baggage entering Australia**

Beef Central, January 17, 2019

In a sharp wake-up call for all livestock industries, African Swine Fever has been detected in samples of pig meat being smuggled into Australia through the post or by incoming travellers in their luggage, the Department of Agriculture has confirmed.

The samples detected at international airports and mail processing centres were destroyed, and did not escape into the domestic Australian pig population, the department has confirmed.

In response to the recent spread of ASF around the world, the Department of Agriculture recently increased its border activities, sampling pork products seized at airports and mail receipt centres over a two-week period. Testing was conducted at the Australian Animal Health Laboratory in Geelong.

Test results showed six pork products from 152 tested were contaminated with African Swine Fever virus. The alarming finding has serious implications for all production livestock industries working to protect Australia’s critically important disease-free status.

The Department of Agriculture’s head of biosecurity, Lyn O’Connell, said the department had increased controls and remained committed to keeping Australia’s $60 billion agricultural industries free from the disease.

**Bad pork dumplings seen as culprit in Japan swine fever**

Travelers carrying contaminated food pose risk to hog industry

TOKYO — As the spread of swine fever raises alarm in Japan, experts believe the initial outbreak was triggered by a traveler who bought contaminated pork products into the country — a growing concern amid the country’s

**Thailand on alert for virus-laden Chinese pork**

Thailand is on alert for virus-laden Chinese pork

Thai authorities are carefully screening pork products being carried in by travelers from China and Mongolia after the World Organization for Animal Health warned last week of outbreaks of African swine fever in those countries.

Surapol Thansri, director general of the Livestock Development Department, said on Tuesday that officials at the National Animal Quarantine Station had on January 15 seized from a Chinese tourist pork sausage and sausages found to be virus contaminated.

**4. Pork sausage**

Arrival date of the passenger: 12 Jan. 2019
Arrived at: Chubu airport
Departed from: Shanghai
(ASF virus isolation: positive)

**5. Homemade pork sausage**

Arrival date of the passenger: 12 Jan. 2019
Arrived at: Chubu airport
Departed from: Shanghai
(ASF virus isolation: positive)
Pig Meat Consumption (kg/person/year)

Source: ODCE
ASF & sector adaptation

- 43% of Global producers are still small holders
- High demand for increasing production
- Tendency to concentrate production

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Porc : la Chine réveille les marchés

En berne depuis plusieurs mois, les cours du porc grimpent en flèche chez les principaux pays exportateurs, sous la pression des archevêques catéchistes. Comme attendu, le ministère de l’agriculture chinois rapporte un chêne en chute en février, au raisin des dégâts de la peste africaine porcine (PPA). L’administration américaine prévoie une hausse des importations chinoises de 33% sur 2019.

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Chinese pig sector
Source: MARA (PR China).

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Rabobank: ASF to catalyze widespread pig production consolidation in China

By Jane Byrne

The African Swine Fever (ASF) outbreak in China will change the structure of the swine sector there, accelerating a consolidation trend, according to RaboResearch’s latest Pork Quarterly report.

"China’s hog industry is fragmented, with 90% of hogs coming from small producers. Biosecurity has been a weakness of this segment, and most reported cases of ASF come from farms with fewer than 500 hogs, commonly using kitchen waste as feed. Conversely, large-scale farms have very strict biosecurity, with standardized feed and herd size. ASF has largely been unaffected by ASF. We expect ASF to catalyze widespread industry consolidation, with many small farmers becoming uncompetitive under the new market conditions."

Market disruption in China following the discovery of ASF in early August has been significant, continued the analysts.

Transport bans have made it difficult for affected provinces to move hog inventories. The inability to slaughter hogs in affected regions is affecting prices and will force liquidation. Product shortages in consumer-heavy regions without production, on the other hand, are experiencing extreme price inflation. Some small farmers in the...
ASF global control as public good?

- It is justified?
- Do we have enough disease intelligence, capacity and resources?
- Are all key private-public stakeholders identified & engaged?
- How can we plan effectively?
- Do we have mechanisms to coordinate actions at regional and global level?
OIE ASF portal
