



## Swine Disease Global Surveillance Report

Monday, July 1, 2018 – Sunday, August 5, 2018

The global swine disease surveillance system includes the three tier-1 foreign swine diseases (ASF, CSF, FMD), and other relevant diseases of swine (such us: porcine rotavirus, Porcine epidemic diarrhea virus (PEDV) and Aujeszky's disease/pseudorabies (Suid herpesvirus 1 (SuHV1)).

<u>**Report highlight</u>**: Last Friday the first case of African Swine Fever (ASF) was reported in China (<u>LINK</u>). First identified on August 1st, the outbreak was located in the northeast, in the city Shenyang, district of Shenbei New, in the province Liaoning, swine dense area 130 miles (208km) of the North Korean border. Infection on a small farm with a herd of 383 pigs, where 47 pigs died from the disease, was confirmed by China Animal Health and Epidemiology Center.</u>

## ASF Reports – Summary

The Chinese Center for Disease Control and Prevention officially reports a level 2 outbreak, and it has been contained with the slaughter of a herd of close to 8,000 pigs (<u>LINK</u>). Since Friday, the transport of pigs in and out of the area has been banned, along with the feeding of untreated food waste. In the event of a major outbreak, provincial veterinary authorities in the affected provinces shall immediately launch a working day reporting system for the prevention and control of ASF, and suspend the transfer of live pigs and related products from the affected counties and districts. Relevant provinces carry out emergency epidemiological investigation. All relevant departments shall, in accordance with their respective responsibilities, work together to prevent and control the epidemic. Today updates, informed that the provincial government has asked local authorities to launch emergency inspections at all pig farms, hog markets, slaughterhouses and harmless treatment sites in the province, and report any cases of pig deaths due to unknown reasons, slaughtered pigs found with splenomegaly or splenic hemorrhage, and immune failure among pigs after receiving swine fever vaccines, the paper reported, citing the animal health bureau (LINK).

Major concern about its spread in the Chinese pig herd, and possibly to Japan, the Korean Peninsula and other parts of Asia. On this matter, Japan has suspended imports of heat-treated Chinese pork, an official at Japan's ministry of agriculture, forestry and fisheries said (<u>LINK</u>). In addition, among the earlier economic consequences of this event, it has been reported that Muyuan lost \$750M in market capitalization (<u>LINK</u>).

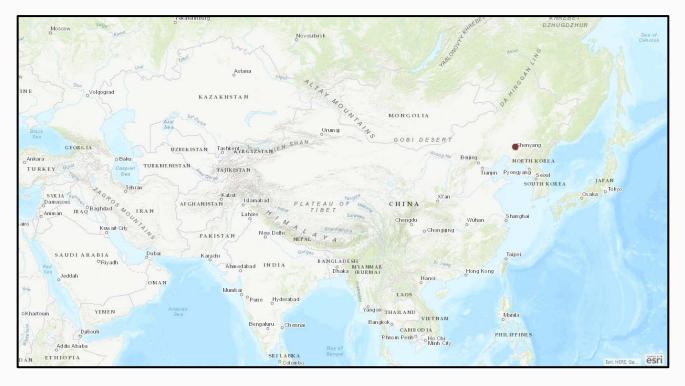
The current ASF challenge outside Africa started in 2007 in Georgia, from there to the Russian Federation and eastern Europe, including EU countries in the Baltic States, Ukraine, Poland, Czech Republic. Latvia and Romania are facing now several ASF outbreaks, and its rapid spread in wild boars and commercial herds. Thousands of miles from any known case of ASF, the introduction into China is a major concern. The way that this disease was introduced is unknown, but it is indicative that this disease can travel long distances, not only in infected pigs but also by contaminated food, feed, with international travelers, and other articles.

The People's Republic of China has more than half of the world's pig population, with thousands of backyard and large-scale farms operating in the northern, central and southern regions, and currently produces about half of the world's pork and is the top consumer of the meat. If this virus is already in other herds, the challenge to contain the disease in this region will be daunting. By the time of document, this single outbreak was officially reported, and no other outbreaks have been published.

Further surveillance, rapid response and restriction of sales and animal movement are the main tools as there is no vaccine available. This outbreak illustrates again that protection against this foreign animal diseases (FAD's) not only involves vigilance at our borders, but on each of our farms. Restrictions of the introduction of imported foodstuffs, especially meats, and recent travelers, especially from countries battling FAD's, should be examined.

## References:

- <u>https://veterinaryrecord.bmj.com/content/181/5/115</u>
- <u>https://www.nasdaq.com/article/china-reports-1st-african-swine-fever-outbreak-culls-1000-hogs-20180803-00262</u>
- http://finance.sina.com.cn/china/gncj/2018-08-03/doc-ihhehtqh6152903.shtml
- <u>http://www.moa.gov.cn/xw/zwdt/201808/t20180803\_6155300.htm?from=groupmessage&isappinstalled</u>
   <u>=0</u>
- <u>http://www.fao.org/documents/card/en/c/I8805EN/</u>





Map: Location of the outbreak in the city Shenyang (district of Shenbei New), Liaoning province.

## Full list of report's events





<u>Report Maps:</u> The locations mentioned in this report are colored in the maps below according to <u>significance</u> <u>score</u>, which are based on the identified hazards (list of worldwide events below) and potential risks to the US swine industry: *1: Blue* – no change in status, *2: red* - needs extra attention as the situation is dynamic; *3: black - requires consideration of change in practices to reduce exposure by the US industry.* 

Event # 1	
Date of the event: 7/27/18	
Date of publication: 7/4/18	Source of the outbreak(s) or origin of infection: Legal movement of animals.
Yuxi City, Xinping YizuDaizu	Measures applied: Movement control inside the country, Screening, Quarantine,
Location: Autonomous County,	Official destruction of animal products, Official disposal of carcasses, by-products
China	and waste, Stamping out, Zoning, Disinfection, Vaccination permitted (if a
Disease type: FMD	vaccine exists), No treatment of affected animals.
Species affected: Farm animals Porcine	
Confirmed diagnosis	Morbidity: 4.84 Mortality: -
Significance score: 1.00 *	Reporting source: OIE
Event # 2	
Date of the event: 1/21/17	Only one new outbreak was detected and confirmed in a community (Waramo
Date of publication: 7/4/18	village) near the initial outbreak area. Further tests have come back negative.
Waramo village, Vanimo	Monitoring has been ongoing since May 2016 in the infected and control zone
Location: Green, West Sepik	and throughout the country. No new cases were observed. The event is ongoing
Papua New Guinea	but will be resolved in the upcoming month if no new cases are discovered.
Disease type: Other	Source of the outbreak(s) or origin of infection: Introduction of new live animals,
Farm animals	Illegal movement of animals, Contact with infected animal(s) at grazing/watering,
Species affected: Porcine	Swill feeding
Confirmed diagnosis	Morbidity: - Mortality: -
Significance score: 1.00 *	Reporting source: OIE
Event # 3	
Date of the event: 7/4/18	
Date of publication: 7/5/18	
	Source of the outbreak(s) or origin of infection: Unknown.
Location: Istria, Constanta	Measures applied: Surveillance within containment and/or protection zone,
Romania	Official disposal of carcasses, by-products and waste, Disinfection
Disease type: ASF	
Packyard	•
Species affected: Porcine	
Confirmed diagnosis	Morbidity: 100 Mortality: 35.29
Significance score: 2.00 *	Reporting source: OIE
Event # 4	
Date of the event: 6/25/18	Source of the outbreak(s) or origin of infection: Unknown
Date of publication: 7/9/18	
	Measures applied:
Location: Crestur, Bihor	Surveillance within containment and/or protection zone
Romania	Official disposal of carcasses, by-products and waste
Disease type: ASF	Stamping out
Backvard	Disinfection
Species affected: Porcine	
Confirmed diagnosis	Morbidity: 100 Mortality: 50.88
Significance score: 2.00 *	Reporting source: OIE
Event # 5	
	4
	Source of the outbreak(s) or origin of infection 🛛
Date of publication: 7/9/18 Bouarfa, Bouarfa, Blida,	Unknown or inconclusive
	Control measures
Location: Blida; Ighil Ali, Ighil Ali, Ighil	
Algeria	Measures applied
	Surveillance outside containment and/or protection zone
Species affected: Farm animals Cattle	
Confirmed diagnosis	Morbidity: 87.5 Mortality: -
Significance score: 1.00 *	Reporting source: OIE
Event # 6	
Date of the event: 12/23/17	1
	1

Date of publication: 7/11/18	Source of the outbreak(c) or origin of infection: Unknown or inconclusive:				
Location: VARIOUS.	Source of the outbreak(s) or origin of infection: Unknown or inconclusive;				
Mozambique	Contact with infected animal(s) at grazing/watering; Fomites				
Disease type: FMD - Foot and m					
Species affected: Farm animals Cattle					
Confirmed diagnosis	Morbidity: 2.79 Mortality: -				
Significance score: 1.00 *	Reporting source: OIE				
Event # 7					
Date of the event: 7/5/18					
Date of publication: 7/17/18					
Zibrovo, Serpukhovskoy,	Source of the outbreak(s) or origin of infection: Unknown.				
Location: Moskovskaya Oblast					
Russian Federation					
Disease type: CSF - Classical Swi					
Backyard	1				
Species affected: Porcine					
Confirmed diagnosis	Morbidity: 45 Mortality: 18				
Significance score: 1.00 *	Reporting source: OIE				
Event # 8	4				
Date of the event: 7/20/18	4				
Date of publication: 8/25/18	4				
	Source of the outbreak(s) or origin of infection 🛛				
Location: Carastelec, Salaj	Unknown or inconclusive				
Romania					
Disease type: ASF					
Species affected: Wild animals					
Porcine					
Confirmed diagnosis	Morbidity: - Mortality: -				
Significance score: 1.00 *	Reporting source: oie				
Event # 9					
Date of the event: 7/13/18					
Date of publication: 1/0/00	Source of the outbreak(s) or origin of infection: Unknown or inconclusive.				
Njallal Samba, Niani, Niani;	Measures applied:				
Location: Ndowen, Niani, Niani	Movement control inside the country				
Gambia	Surveillance outside containment and/or protection zone				
Disease type: FMD	Ante and post-mortem inspections				
Farm animals	1				
Species affected: Cattle					
Confirmed diagnosis	Morbidity: 16 Mortality: 2.4				
Significance score: 1.00 *	Reporting source: OIE				
Event # 10					
Date of the event: 7/16/18	1				
Date of publication: 8/30/18	1				
Nurimu Township, Horqin	1				
Location: Zuoyi Zhongqi, Tongliao,	Source of the outbreak(s) or origin of infection 2				
China	Unknown or inconclusive				
Disease type: FMD	1				
Farm animals	1				
Species affected:					
Cattle Cattle	Morbidity: 7.4 Mortality: -				
Significance score: 1.00 *	Reporting source: OIE				
Event # 11	4				
Date of the event: 7/25/18					
Date of publication: 7/31/18	Source of the outbreak(s) or origin of infection: Unknown or inconclusive.				
	Control measures/Measures applied Official disposal of carcasses, by-products and waste				
Location: 1/0/1900					

Romania		Sta	amping out						
Disease type:	ASF	Dis	sinfection						
Species affected:	Backyard Porcine								
Confirmed diagnosis		M	orbidity: 100			Mortality:		25	
Significance score:			porting source	e: (	DIE	•			
Event # 12			1 0						
Date of the event:	6/10/18		<b>C</b> . I		、	<b>C C C C C C C C C C</b>			
Date of publication:	7/4/18				s) or origin (	of infection: Leg	al mov	ement of ani	mals.
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China	ious county,	' Sci	reening						
Disease type:	FMD - Foot	Land m Qu	arantine						
Disease type.	Farm anima								
Species affected:	Porcine	ais							
Confirmed diagnosis		N //	orbidity: 4.84	1		Mortality:			
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Significance score:	1.00	r Ke	porting source	e: (	DIE				
Event # 13	- /. /								
Date of the event:	7/16/18								
Date of publication:	7/30/18								
	Fownship, H	50	urce of the ou	tbreak	s) or origin (	of infection: unk	nown.		
	ongqi, Tongl	liao,		(-	, 0				
China									
Disease type:	FMD - Foot								
Species affected:	Farm anima	als							
species anected.	Cattle								
Confirmed diagnosis		M	orbidity: 7.38	3		Mortality:	-		
Significance score:	1.00	* Re	porting source		DIE				
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Event #       14         Date of the event:       Date of publication:         Date of publication:       Chapuml         Location:       Malepa,         Malawi       Malawi         Disease type:       Species affected:         Confirmed diagnosis       Significance score:         Event #       15         Date of the event:       Date of publication:         Location:       Kolda co         Species affected:       Senegal         Disease type:       Species affected:         Confirmed diagnosis       Significance score:         Event #       16         Date of the event:       Date of the event:         Date of publication:       Location:         Kord diagnosis       Significance score:         Event #       16         Date of publication:       Location:         Location:       Central F	6/23/18 7/3/18 bwa, Wanya Malenga and ASF - Africa More than Porcine 1.00 7/14/18 7/14/18 7/14/18 mmune ASF - Africa Wild anima Porcine 1.00 7/13/18 7/13/18	<pre>"TI Ma inc can swin one. PI "Ma inc can can set an s set an s set an s s set an s s set an s s s s s s s s s s s s s s s s s s</pre>	ne outbreak ha atete villages v ve so far died, lude contact of reasses among velopment Of orbidity: 108 porting source official report her. "This is di ing decimated ctor." orbidity: - porting source g owners in the rican swine fev is confirmed b ar yet how ma	e: C as mostl vhich ar the con- of sick an g others. fice. e: r t located stress a by the s e: k e: k e: centr ver in th y the Ve any pigs	y affected ( e within Lin ditions which nd healthy p "said Nyire nanonline.co d. No epider mong pig fa swine fever coldanews.co al Region are e region. The terinary Se have been	Mortality: miological detai miological detai miormed the p Mortality: miormed the p Mortality: me alarmed over a contagious he rvices in the Re affected by the	amba E e sprea nption khata E - - - - - - - - - - - - - - - - - - -	PAs where 10 ad of the dise of meat of pip BayDistrict Ag ted to this out une. Their and ent of the actor hagic disease hursday night e but the Service	D8 pigs ase 3 riculture tbreak mals are ors of this of pigs c. It is not vice is
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Confirmed diagnosis	Morbidity: 0	Mortality:	0
Significance score: 1.00 *	Reporting source: r	nyjoyonline.com	
Event #       17         Date of the event:       8/1/18         Date of publication:       #REF!         Thika, Juja, Ruiru, Ruai,         Location:       Isinya and Limuru in         Kenia         Disease type:       ASF - African S         Species affected:       Farm animals         Presumptive diagnosis       Significance score:       1.00 *	Reports of significant rat three months coming m Kiambu and Kajiado cour slaughterhouses. After e veterinary authorities, so disease is African Swine demands that notifiable laboratory diagnosis and Morbidity: -	es of mortality of pig farms h ainly from Thika, Juja, Ruiru, F nties, which have plenty of sv xtensive discussions with the ome veterinarians are of the o Fever (ASF). Still, disease repo diseases like ASF be confirme declared by the Director of \ Mortality: - ation.co.ke	Ruai, Isinya and Limuru in vine farmers and farmers and relevant opinion that the devastating orting and control protocol ed by government
Event #18Date of the event:#REF!Date of publication:8/3/18Shenbei New District,Location:Shenyang, LiaoningChina	This is the first outbreak launched the African Sw Level II, according to the	of African swine fever in Chir ne Fever Contingency Plan a Standards & Protocols for Af e been taken. Removed from on and/or slaughter.	nd Emergency Response Frican swine fever. A series
Porcine Confirmed diagnosis	Morbidity: 0.54	Mortality:	100
Significance score: 3.00 * *Significance score: A scoring swine industry. Scores range f	system to assess the like		, .

swine industry, and impact on trade.