

Animal Industry Division

PEDV

June 2017

Porcine Epidemic Diarrhea Virus

WHAT IT IS

- A coronavirus related to transmissible gastroenteritis virus (TGEV) and to porcine delta-coronavirus (PDCoV)
- Causes widespread, acute, severe watery diarrhea in pigs
- Symptoms can also include vomiting, loss of appetite, and death (up to 100% in nursing pigs)
- It is a <u>REPORTABLE</u> disease

WHAT IT IS NOT

- It <u>only</u> infects pigs
- It <u>cannot</u> infect humans
- It is <u>not</u> a food safety issue

HISTORY

PEDV has been present in Europe and Asia for many years but has recently made its way into the US. On November 13, 2014, state veterinarians discovered the first known case of PEDV in the State of HI. The affected farm was located in Waianae on the island of Oahu. A quarantine order was issued for the island of Oahu, restricting movements of pigs from the west side of Oahu (Makaha, Wajanae, and Nanakuli) as well as any pig movements from Oahu to neighboring islands to prevent the spread of the disease. Since then surveillance testing has detected the presence of the virus on swine farms elsewhere in the State.

CURRENT SITUATION

In early June 2017, the disease was detected on a different farm in Waianae, when it began experiencing losses in nursing pigs. Department of Agriculture

veterinarians are engaged in controlling this disease outbreak at this time.

HOW DO PIGS GET INFECTED?

PEDV is transmitted fecal-orally. Pigs are either directly infected by contaminated feces or indirectly by contaminated feed, equipment, vehicles, or people.

OK I THINK MY PIGS ARE INFECTED...WHAT NOW?

Contact your local Animal Disease Control Branch veterinarian immediately:

Big Island	(808) 933-3307	
Kauai	(000) 402 7400	
Oahu	(808) 483-7108	
Maui		
Molokai	(808) 873-3559	
Lanai		
Statewide		
Extension	(808) 956-3847	
Veterinarian		



HAWAII DEPT. of AGRICULTURE

Animal Disease Control Branch 99-941 Halawa Valley Street Aiea, Hawaii 96701

> Phone: (808) 483-7106 Fax: (808) 483-7110

HOW DO I STOP THIS DISEASE FROM SPREADING TO MY FARM?

Unfortunately, the current available vaccines are not useful for preventing illness in naïve herds, but they may be useful in herds that have already been infected. Zoetis and Harris both manufacture a modified-live vaccine that can help boost immunity in previously exposed herds.

Biosecurity of every farm is very important.

Monitoring and controlling the ins and outs of a farm will help to minimize exposure of a herd not just to PEDV but to other infectious diseases as well.

	Ins		Outs
•	new animals	•	products
•	feed/garbage	•	waste
	deliveries	•	people
•	people	•	vehicles
•	vehicles		
•	pests		

STEPS TO MINIMIZE YOUR RISK OF INFECTION

- 1. <u>Limit</u> foot and vehicle traffic on your farm (post signs to control incoming traffic)
- 2. Keep a record of all visitors to the farm
- Create a <u>LINE OF SEPARATION</u> that separates clean areas from dirty areas
- 4. Have all personnel use clean equipment and PPE (personal protective equipment), wash hands, and make sure to clean and disinfect footwear
- 5. Have a good rodent control program in place
- 6. Do not allow feral pigs near your herd (build fences, ensure barns are secure, etc.)
- 7. Properly clean and disinfect vehicles and equipment before and after entering your own or other farms (remove organic material, use an appropriate disinfectant, allow adequate contact time)
- 8. Ensure proper disposal of any infected animals

SUMMARY

PEDV is a reportable serious disease affecting pigs. Please contact the Hawaii Department of Agriculture Animal Disease Control Branch with any questions or for further information regarding PEDV.

CLEANING AND DISINFECTION

- Remove all visible dirt, manure, debris.
 Most disinfectants are less effective when a large amount of organic debris (feces, dirt, etc.) is present
- Wash areas to be disinfected (use scrub brushes as needed)
- Rinse and allow area to DRY
- Apply disinfectant (the following disinfectants have been shown to effective against PEDV, but others may also be effective. Please contact your local HDOA veterinarian for more information)
 - 1-Stroke Environ
 - Sodium hypochlorite (bleach)
 - Synergize[®]
 - o Tek-Trol®
 - o Virkon-S®
- Allow for appropriate contact time (most disinfectants need to stand for at least 10 minutes in order to be considered effective)

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