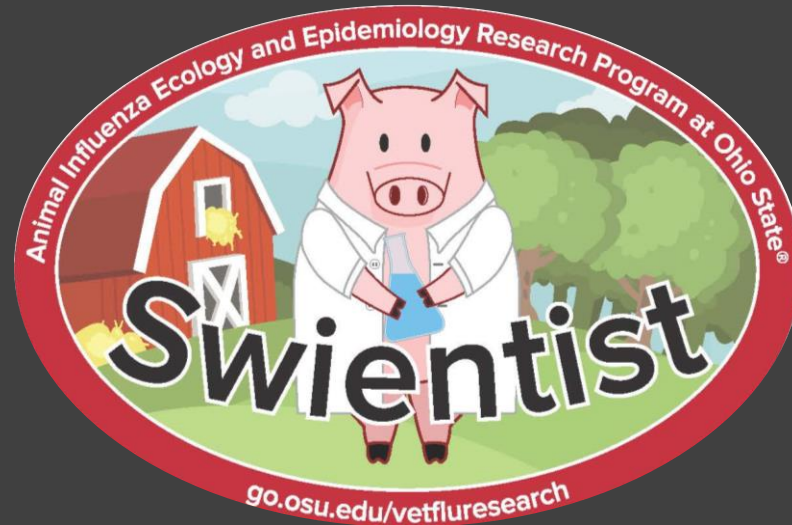


Developing 'Swientists' through interactive zoonotic disease risk and mitigation training



THE OHIO STATE UNIVERSITY
COLLEGE OF VETERINARY MEDICINE

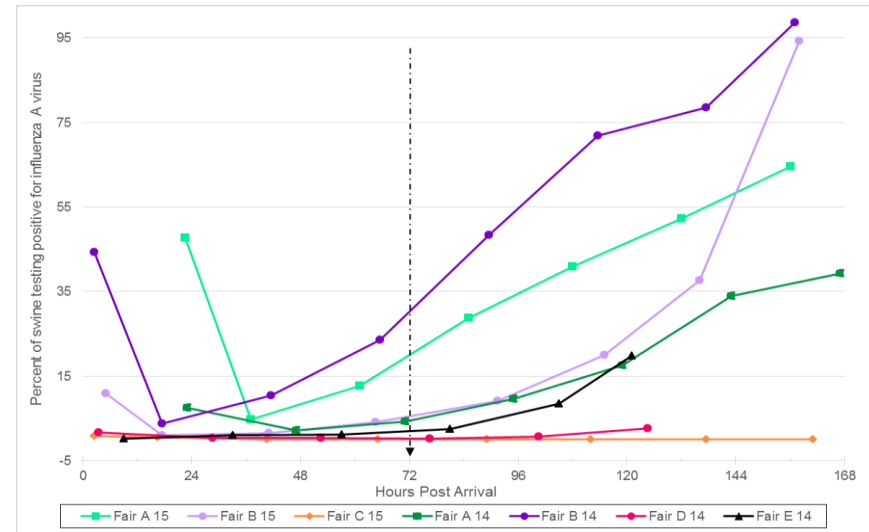
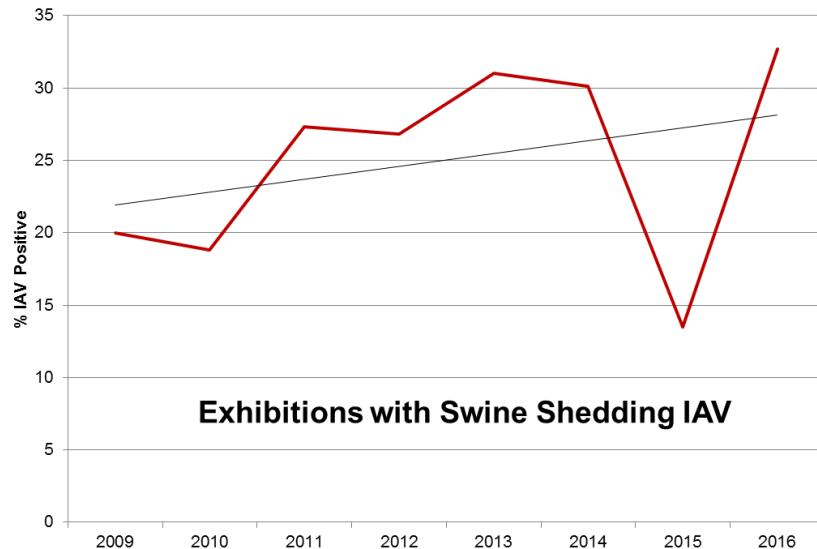


Why is Ohio involved?

IAV surveillance in exhibition swine has been ongoing since 2009

131 H3N2v cases since 2011

The effectiveness of proposed mitigation strategies has been assessed through surveillance activities.





Outputs and Evaluation

DEPARTMENT OF VETERINARY PREVENTIVE MEDICINE

Scenario-based training – 2015 - 2017

- ✓ 146 youth in 5 Ohio counties participated in scenario-based training regarding IAV in pigs at fairs.
- ✓ Evaluation post-test scores of 85.7 is significantly higher than pre-test score of 65.6 ($p < .001$)
- ✓ Manuscript accepted in *Zoonosis and Public Health* journal



Ohio 4-H Conference and Ohio Swine Day – 2016-2017

- ✓ Approx. 150 participate in Youth Swine Day each year.
- ✓ Approx. 30 volunteers participate in the Ohio 4-H Conference workshop annually
- ✓ 2016 curriculum was the scenario-based training piloted in 2015
- ✓ 2017 curriculum was a pilot for “Becoming a Swientist” program activities
- ✓ Questionnaires used for evaluation (more details Tuesday)

Social Media Campaign 2016 - 2017

- ✓ Messaging regarding IAV in exhibition swine was posted on individual county extension Facebook and Twitter pages on each of the 5 weekdays leading up to start of the respective county fair
- ✓ An average of 17,315 reaches were achieved for each day's messages
- ✓ #swientist #4Hcares

Swine Resource Handbook Zoonotic Disease Chapter – 2016 – 2017

- ✓ 7 page chapter covering swine zoonotic diseases, PPE, and biosecurity
- ✓ Disseminated electronically and as handouts in 2017
- ✓ Proceeding through the peer-review process for inclusion in the next print version of the *Swine Resource Handbook*

Swine Resource Handbook Zoonotic Disease Chapter Skill-a-thon – 2017

- ✓ 48 youth participated in a pilot zoonotic disease station included in a skill-a-thon tiebreaker at the Ohio State Fair in 2017
- ✓ Average score was 5 out of 10 (50%) correct
- ✓ This score is on-target with all other stations completed at the OSF 2017 swine skill-a-thon

OHIO STATE UNIVERSITY EXTENSION

SPECIAL TOPIC

Swine Zoonotic Disease Risks and Prevention

by Jacqueline Nolting, MS, Agricultural and Extension Education, Veterinary Preventive Medicine, The Ohio State University and Andrew S. Bowman, MS, DVM, PhD Veterinary Preventive Medicine, College of Veterinary Medicine, The Ohio State University

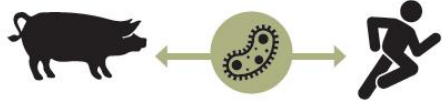


Graphicstock.com

 Diseases commonly spread between swine, and some also spread between swine and humans. As a responsible livestock owner, you can take measures to reduce the spread of pig-to-pig and pig-to-human diseases.

What Is a Zoonotic Disease?

A zoonotic disease is one that can be spread between animals and people. Many diseases causing illness in humans come from animals. Viruses, bacteria, fungi, and parasites can cause zoonotic diseases. Thus there are various levels of prevention measures and treatments.



Icons from The Noun Project: pig by by Extenshellyen S, germ by Maxim Kulikov, man running by Mungeng Kim

 **THE OHIO STATE UNIVERSITY**
COLLEGE OF FOOD, AGRICULTURAL, AND ENVIRONMENTAL SCIENCES

ohio4h.org
CFAES provides research and related educational programs to clientele on a nondiscriminatory basis. For more information: go.osu.edu/cfaesdiversity



Outputs and Evaluation

DEPARTMENT OF VETERINARY PREVENTIVE MEDICINE

“Becoming a Swientist” program – 2017

- ✓ OH-Pigs show circuit participants were the targeted audience
- ✓ A training session was held on May 20th at the start of a circuit swine show. Activities included a mucus swap activity; proper hand washing techniques; bio-security bucket assembly; and basic information for implementing bio-security on home farms.
- ✓ Facebook Live was used to capture footage of the training session, which has been viewed 863 times (as of 10/18/17)
- ✓ Participants were encouraged to take “selfies” while completing healthy habits to upload on a private Swientist webpage
- ✓ Individuals who loaded the most selfies, with captions, in each showmanship age division were awarded Ipads at the annual OH-Pigs banquet.
- ✓ In all, 10 youth created accounts to upload selfies

www.go.osu.edu/swientist





Outputs and Evaluation

DEPARTMENT OF VETERINARY PREVENTIVE MEDICINE

World Pork Expo– 2017

- ✓ Hosted a booth in the exhibitor vendor building for the duration of the junior national swine show in Ames, IA
- ✓ Different activities were available each day to teach participants about biosecurity and IAV procedures
- ✓ Surveys were administered to evaluate the opinions and perceptions of youth swine exhibitors toward mitigation recommendations





Becoming a Swinetist has engaged youth of all ages



Lessons Learned

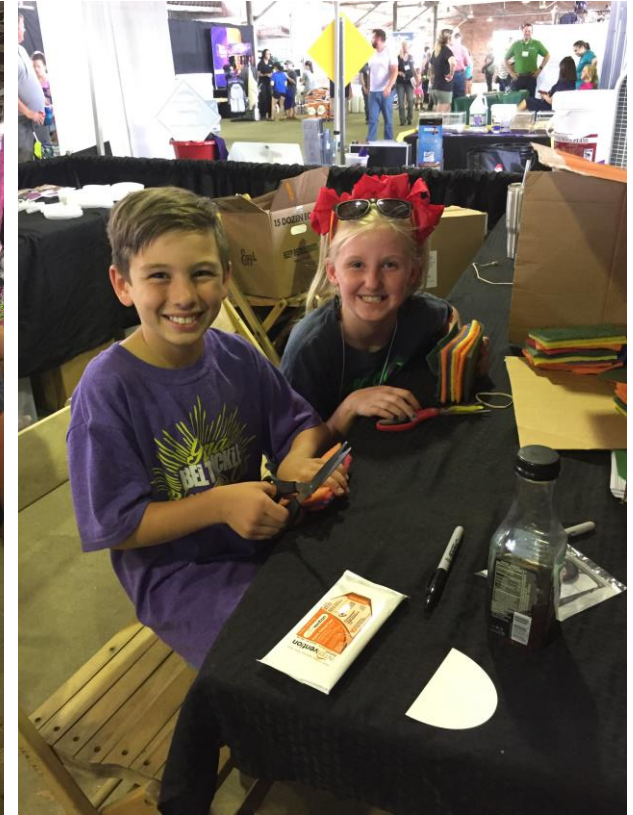
DEPARTMENT OF VETERINARY PREVENTIVE MEDICINE



Kids are fast learners, and are willing to do anything for a popsicle!



Kids can convince ANYONE to participate in activities!



Go to where the youth are; don't expect them to come to you! Be prepared for excitement when you get there!