

Influenza and Zoonoses Education among Youth in Agriculture
FINAL Progress Report

Please return completed Progress Report to CSTE at mhuynh@cste.org.

1. Identify your top achievements for the project.

- I. Expanded collaboration with new partners* – Becoming a Swientist programming expanded into new markets during the 2019 funding period, through new and strengthened partnerships with other organizations. Study personnel conduct biosecurity training sessions at the NPIC annual meeting sponsored by National Pork Board; and at the Illinois State Fair sponsored by Illinois Pork Producers. Media coverage of activities at the Illinois State fair reached organizers at the North Carolina State fair, who also included Becoming a Swientist activities at their fair. In addition, collaboration with NJSA extended reach to national level swine shows beyond the World Pork Expo, through materials in registration packets. Beyond collaboration with other organizations, partnerships with Michigan and Indiana YIA awardees were strengthened by participating in workshops held in their respective states.



Fig 1. Youth making 'Virus Infected Snot' and practicing proper hand washing techniques at the Illinois State Fair.

- II. Continued Becoming a Swientist program* – Conducted hands on training with youth attending 4-H/FFA conferences during the winter and spring of 2019. Activities included; Ohio 4-H Conference, Ohio 4-H Junior Swine Day, OH-Pigs Jackpot Circuit kick-off weekend, and various 4-H club and FFA chapter visits. Youth involved in the OH-Pigs jackpot Swine circuit participated in the health habits selfie contest; submitting over 130 photos demonstrating how they implement biosecurity practices on their farms or at shows. Hundreds of youth, representing 23 states, participated in Becoming a Swientist activities at The Expo (formerly known as World Pork expo) in Des Moines, IA. Each day of the show, included a new hands-on- activity to engage youth and encourage gains in knowledge. Example activity topics included proper vaccine usage; parasitology; disease traceability; and how infectious agents spread.

- III. Broad dissemination of skill-a-thon materials within Ohio and Indiana** - Disseminated zoonotic disease risk and prevention skill-a-thon kits to each county in Ohio and Indiana. In all, 180 kits that contained instructions, disease information, and PPE items were sent to extension educators in both states

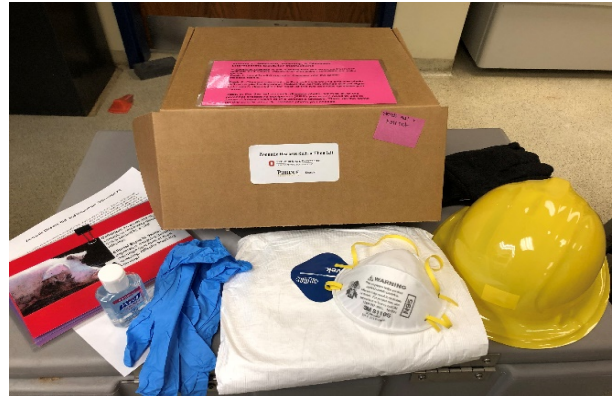


Fig. 1. Skill-a-thon kit materials

2. Please list the collaborators on this project's achievements and briefly describe their role in the project (i.e. 4-H, State PH, State Animal Health).
 - i. Ohio 4-H: Collaborators were instrumental in the design and dissemination of the skill-a-thon kits. They piloted materials during the 2017 and 2018 Ohio State Fair skill-a-thons and provided edited written materials to be included in the kits. In addition, they provided a short overview and training with extension educators to ensure the kits were being used properly across the state. Skill-a-thon kits are being considered for inclusion in the 4-H mall, along with learning lab kits; which is being led by 4-H collaborators.
 - ii. Indiana 4-H: Skill-a-thon kits were used for biosecurity training at a "Teens as Teachers" event, prior to each county extension educator receiving a kit to be used with their youth.
 - iii. Ohio State University, Department of Agricultural, Environmental, and Development Economics: Collaborators used data compiled by AIEERP and extension educators to develop economic models to determine the value of the show swine industry. The value of \$1.2 billion per year has been validated and manuscript preparation is underway.
 - iv. Animal Influenza Ecology and Research Program: OSU collaborators conducted hands on training with youth attending Ohio 4-H Conference, Ohio 4-H Junior Swine Day, OH-Pigs Jackpot Circuit kick-off weekend, World Pork Expo, NPIC Annual meeting, Illinois State Fair, and various 4-H club and FFA chapter visits. Activities include "Administer Vaccines" along with immunology basics; "Clean or Dirty" using ATP technology, "Mucus Swap", "Diagnose the Pig", and various other demonstrations of biosecurity concepts. OSU collaborators have also coordinated data collection for the economics and anthropology studies and are assisting with manuscript preparation. In addition, the AIEERP assembled and shipped all skill-a-thon kits. The Becoming a Swientist also continued within the OH-Pigs Jackpot Circuit, which is also hosted by OSU AIEERP.
3. Please describe areas of concern or challenges in meeting the objectives or providing deliverables.
 - i. One of our objectives included being a part of the LEAD camp hosted by the National Junior Swine Association (NJSA), however the camp was cancelled due to a change in leadership within the

- ii. The World Pork Expo is cancelled for 2019, due to the risk of the introduction of African Swine Fever, however the pig show and Swientist training continue as proposed.

	Dec 2018	Jan 2019	Feb 2019	Mar 2019	Apr 2019	May 2019	Jun 2019	Jul 2019	Aug 2019	Sep 2019	
Obj 1: Package skill-a-thon materials to individual counties											
Obj 1: Ship skill-a-thon materials to individual counties											
Obj 1: Gather feedback from extension educators on skill-a-thon performance											
Obj 2: Host interactive Swientist training and introduce program with state swine jackpot participants											
Obj 2: Participants upload selfies of healthy habits and submit biosecurity posters for competition											
Obj 2: Distribute Swientist awards at circuit annual banquets											
Obj 3: Educational insert/giveaway in registration packet at national swine shows											
Obj 3: NPIC annual meeting											
Obj 3: Illinois State Fair											
Obj 3: Interactive booth at World Pork Expo											

Impact Chart

If the activity/deliverable described is/included an **Educational Intervention**, please complete this portion of the report. Please note: the chart below should be reflective of the cumulative project period and can include deliverables met in the interim report.

Impact							Evaluation	
Intervention Activity	Baseline # prior to 2018-19 grant period	How did you measure the baseline? Did you include direct participants, families, etc?	2018-19 Audience (youth, community leaders, etc?)	# of attendees/participants	# of materials distributed	Did you collaborate with another state? If so, which one(s)?	Pre-test administered? (How many? To whom?)	Post-test administered? (How many? To whom?)
EXAMPLE: Four Scenario based training exercises	X# of training sessions held in 2016 to X total youth aged 11-15	Only counted the number of actual youth who attended the session	Youth aged between 12 and 16	X # attendees per training; total of X attendees				
Junior Swine Day	Sessions held each year from 2016-2018; with 100-200 students reached each year	Counted the number of youth attending each year	Youth swine exhibitors aged 9-19	380	Youth learned basic immunology and how to properly give a pig a vaccination	No	No	Evaluation completed at end of session: mean score of 4.7/5.0

<i>Ohio 4-H Conference</i>	<i>A variety of workshop types held 2016-2018 with 15-20 attending each time. In 2018 we had a booth that could be visited by the 1500 attendees.</i>	<i>Counted number of youth who attended the sessions each year</i>	<i>Adult and teen 4-H volunteers</i>	<i>120</i>	<i>120 lesson plan packets</i>	<i>No</i>	<i>Post pre-test: Knowledge Before Mean: 2.6/5</i>	<i>Knowledge after Mean: 4.5/5 Quality of Presentation Mean: 4.6/5</i>
<i>OH-Pigs Kick-off</i>	<i>Hosted sessions in 2017 and 2018 with approx. 100 youth at each</i>	<i>Counted number of youth participating each year</i>	<i>Youth swine exhibitors age 3-21</i>	<i>100</i>	<i>Youth completed a clean/dirty activity Hand-out flyers for Becoming a Scientist program and ~ 50 stress germs</i>	<i>No</i>	<i>No</i>	<i>No</i>
<i>Zoonotic Disease risk and prevention skill-a-thon kits</i>	<i>0</i>	<i>This is a new collaboration for the 2019 program year</i>	<i>Indiana and Ohio youth ages 9-18 enrolled in 4-H</i>	<i>11,679 youth enrolled in swine 4-H projects in Ohio</i>	<i>180 kits to each county in OH and IN</i>	<i>Indiana</i>	<i>Skill-a-thon station was piloted at the 2017 and 2018 Ohio State Fairs</i>	

<i>Educational materials in NISA show registration bags</i>	0	<i>This is a new collaboration for the 2019 program year</i>	<i>Youth swine exhibitors ages 3-21 registered at National Swine Registry show in Perry, GA</i>	950	950 Stress germs	<i>Yes, youth from multiple states attended show sponsored by NSR</i>	NO	No
<i>Becoming a swientist selfie contest</i>	<i>37 photos submitted in 2017; 110 photos submitted in 2018</i>	<i>Counted number of photos submitted</i>	<i>Youth swine exhibitors age 3-21</i>	132 photos	<i>5 Ipads, 5 Healthy Tower Tumble games, 5 Swientist sweatshirts</i>	No	NA	NA
<i>NPIC Annual meeting biosecurity workshop</i>	NA	<i>Counted number of participants</i>	<i>Youth grades K-8</i>	200 youth	<i>Youth learned the importance of hand washing, PPE basics, and how pathogens spread</i>	<i>Yes, youth from multiple states attended, Workshop was sponsored by National Pork Board</i>	NA	NA
<i>Illinois State Fair Become a Swientist workshop</i>	NA	<i>Counted number of participants</i>	<i>Youth exhibiting livestock at the Illinois State fair</i>	>150	<i>Youth learned the importance of hand washing, PPE basics, and how pathogens spread</i>	<i>Workshop was sponsored by Illinois Pork Producers Association</i>	NA	NA



Illinois Pork Producers Association

Illinois Pork Producers. Generations of Commitment

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September 23, 2019

To whom it may concern,

On behalf of the Illinois Pork Producers Association, we would like to fully endorse the work of the "Becoming a Swientist" program that Ohio State University organizes. Our organization partnered with OSU to host an event at the 2019 Illinois State Fair which was a huge success among kids and parents, too.

Our organization represents over 1,700 pig farmers across the state of Illinois. The purpose of our youth committee is to promote the pork industry to the younger generations by providing useful education and resources. This program was brought to our attention by a youth committee member and seemed like a perfect fit for our outreach efforts.

The "Becoming a Swientist" event that we hosted at our fair reached over 150 kids, ages 8-18 years old. The audience was primarily 13 years and younger. OSU brought two staff people and all of the materials needed to complete the workshop. We arranged the show ring with four activity stations, where kids were able to rotate and experience each one.

Topics ranged from foreign animal disease preparation to the importance of thoroughly washing your hands. The overarching goal of the event was to share best biosecurity practices with those in the show pig industry. At the conclusion of the workshop, IPPA hosted a panel of speakers to tie the event together. Four industry experts shared their views and knowledge with a crowd of kids and their parents.

We were beyond pleased with the performance of OSU staff, their program and ease of production. We highly recommend that this program continues at the minimum, if not grows to reach a bigger platform.

Best,

A handwritten signature in black ink that reads "Jenny Jackson". The script is cursive and fluid.

Jenny Jackson