

Indiana 4-H April 11, 2019

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What is 4-H?

- 4-H began over 100 years ago, and has since grown into the largest youth development program in the nation
- Started in Clark County, Ohio in 1902, and 4-H started in Hamilton County, Indiana in 1904
- 4-H prepares young people to be leaders in their community and around the world through hands-on experiences alongside their peers and caring adults
- 4-H delivers research-based programming with positive youth development as the base
- 4-H is delivered through America's 109 land-grant universities and the Cooperative Extension Service
- Indiana- 4-H can be found in all 92 counties as delivered through Purdue Extension for youth grades 3- 12 and Mini 4-H
- Community clubs, afterschool programs, school enrichment, camps/workshops, and special programs are all ways youth across Indiana can be involved with the 4-H program



4-H Mission and Vision

Mission: The Indiana 4-H Youth Development mission is to provide real-life educational opportunities that develop young people who will have a positive impact in their communities and the world.

Vision: Indiana 4-H Youth Development strives to be the premier, community-based program empowering young people to reach their full potential



4-H Mission Areas

- Science
- Healthy Living
- Civic Engagement/Leadership



4-H'ers participate in



5M
ANNUALLY
SCIENCE
PROJECTS



2.5M
ANNUALLY
HEALTHY LIVING
PROJECTS



2.5M
ANNUALLY
CITIZENSHIP
PROJECTS



Indiana 4-H Positive Youth Development - Experiences and Opportunities

- Projects - <https://extension.purdue.edu/4h/Pages/projects.aspx>
- State Programs – <https://extension.purdue.edu/4h/Pages/opportunities.aspx>



Past Vs. Present 4-H



Source: <https://bit.ly/2ld56r7>



Indiana 4-H By Numbers – 2017-2018

Youth and Adults

58,006 youth grades 3-12

11,867 adult volunteers



4-H Livestock Participants

Beef: 5379

Cat: 1551

Dairy: 1419

Dog: 3214

Goat: 5978

Horse: 4776

Llama/Alpaca: 669

Poultry: 4989

Rabbit: 5149

Sheep: 3063

Swine: 9478





Relatable Program Efforts





- National multi-species Quality Assurance program – <http://yqca.org/>
 - Includes beef cattle, dairy cattle, swine, sheep, meat goats, dairy goats, poultry and rabbits

FUN FACT- Indiana led the nation in youth certified last year at 19,540 youth that have been certified with 13,280 coming from the Instructor Led Training side and 6,260 from web-based training!

YQCA Promotion

- **An educational opportunity** for 4-H livestock members. Making this an exhibition rule is how Indiana 4-H is ensuring that 4-H members learn about quality assurance. Indiana 4-H is requiring this program so youth learn best management practices with their animals.

The YQCA program will:

- Ensure that youth livestock exhibitors are better prepared to be ambassadors for animal agriculture.
- Ensure that animals from youth livestock programs are treated with the utmost care.
- Ensure that 4-H members are contributing to a safe, wholesome food supply for consumers.
- Enhance the future of the livestock industry so that today's youth producers can become more informed producers, consumers, and/or employees of the agriculture and food industry.

We hold 4-H members to this expectation!!!!



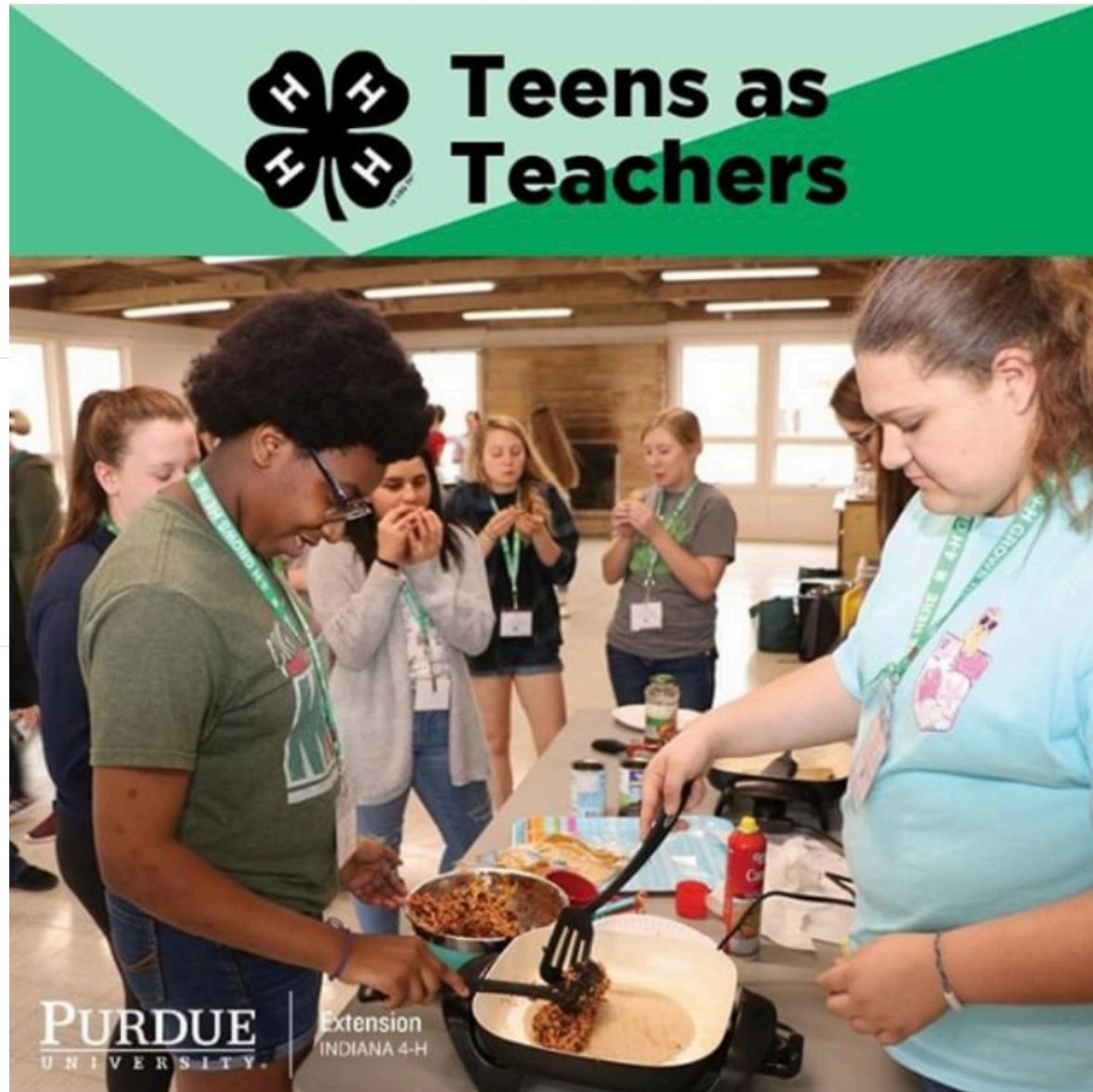
Curriculum Map

Junior (8-11)	Year 1	Year 2	Year 3	Year 4
Food Safety	The Basics of Animal Identification	Administering Animal Health Products	Keeping Animals Healthy	Consumer Education – Thinking Like A Consumer
Animal Well-Being	The Basics of Animal Care	Quality Care	Willful Acts of Abuse	Record Keeping
Life Skills	The Basics of Animal Behavior	Goals To Success	Ethics In The Show Ring	Get Involved

Intermediate (12-14)	Year 1	Year 2	Year 3
Food Safety	Providing Quality Feed	Administering Animal Health Products	Herd Health Plan
Animal Well-Being	Daily Animal Care	Providing Quality Care	Animal Handling & Food Quality
Life Skills	Youth Leadership & Service	Emergency Action Plan	Ethics In The Show Ring

Senior (15-18)	Year 1	Year 2	Year 3	Year 4
Food Safety	Providing Quality Feed	Administering Animal Health Products	Herd Health Plan	Responsibly Producing Foods
Animal Well-Being	Quality Animal Care	Record Keeping	Providing Quality Care	Ethics And Animal Well Being
Life Skills	Sharing the Story	Emergency Action Plan	Environmental Stewardship	Careers in Animal Agriculture

Young Adult (19-21)	Year 1	Year 2	Year 3
Food Safety	Food Safety And Youth Producers	Administering Animal Health Products	Herd Health Plan
Animal Well-Being	Animal Well-Being In Youth Livestock Projects	Providing Quality Care	Hot Topics in Animal Agriculture
Life Skills	Goals to Success	Continuous Improvement	Environmental Stewardship

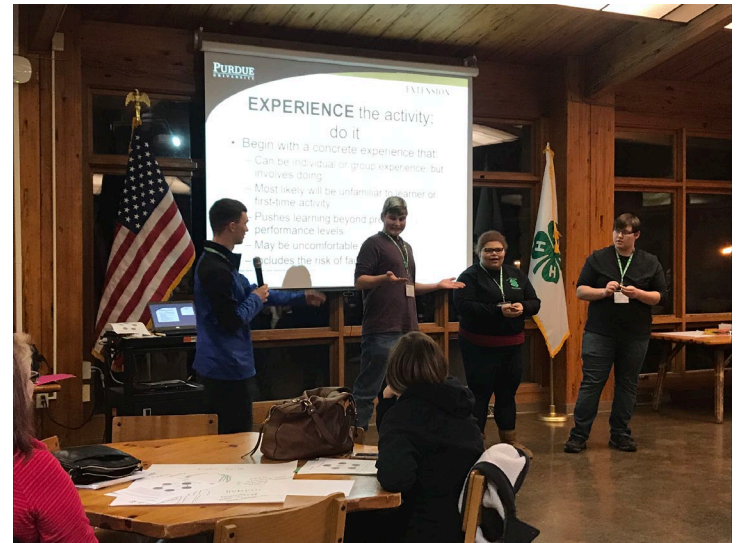


Teens As Teachers



- an opportunity for teams of 3-5 youth and one adult mentor to learn how to be teachers and subject matter experts of a topic of their choice, and are empowered to deliver programming to their community
- Training takes place over a weekend for youth in grades 9-12
- Youth learn subject matter of their choice and the fundamentals of hands-on learning, ages and stages of youth development, public speaking, and lesson planning
- Tracks of focus in 2019 : Animal Biosecurity, Biotechnology, Computer Coding, Healthy Living, and Teen Leadership





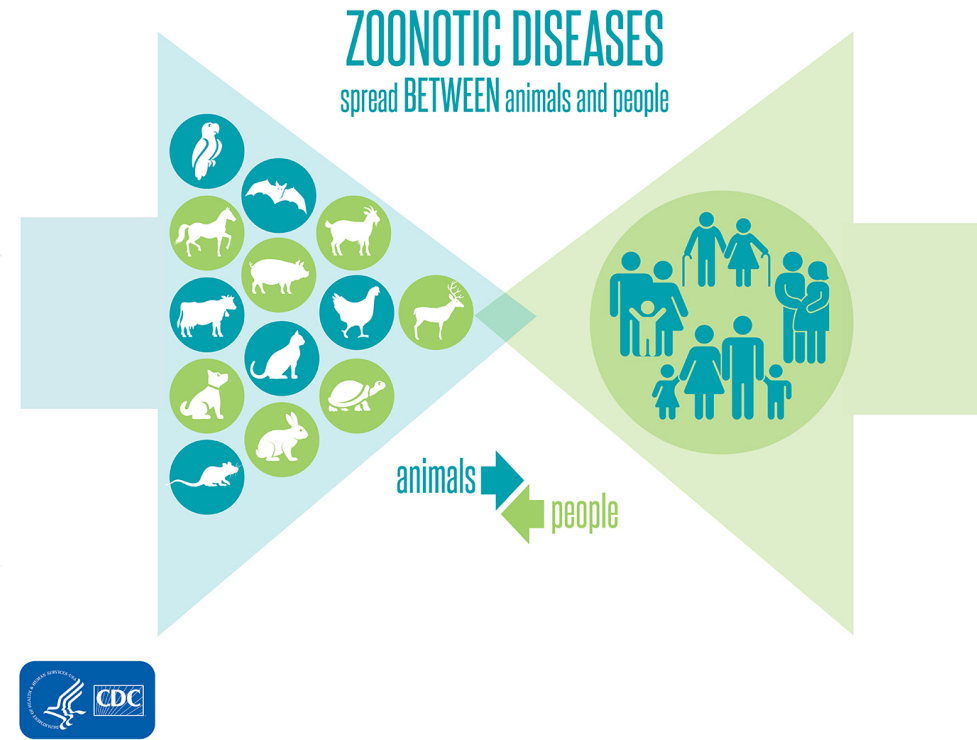
Animal Biosecurity

- Started in 2015- Public Health Grant/ BOAH
- Nearly 300 youth and adult mentors from 23 counties have attended this training
- This session incorporates engineering design and maker activities into 4-H Animal Science Programs
- Ideal for youth interested in learning about animals who do not have access to live animals, while also providing STEM learning opportunities for more traditional 4-H livestock members
- Each team will receive a kit of hands-on “maker” and robotics activities for youth in grades 3-8. Teams will also inform youth about where their food comes from throughout their training sessions
- Youth take the information back to their communities to help educate on how to protect animals and humans from infectious disease
- The goal of the program is help make 4-H youth livestock members build awareness to reduce/prevent the introduction of new diseases or pathogens and to make sure the movement of infectious diseases is maintained within the operation or exhibition event



Areas of Focus

- Defining Biosecurity
- Zoonotic Diseases
- How to reduce risks
- Careers in Biosecurity



Teens as Teachers Feedback



“I learned a lot of new things, that I have never learned before. I have never really thought about quarantining my animals, after coming back from a show or the 4-H fair. The instructors did really well on presenting the whole project.”

“I'll apply biosecurity to my daily farm life. I learned a lot that is very relevant to most situations.”

“During my county fair, I plan to incorporate as much information into the fair as possible in subtle ways such as signs and posters.”



Kits for Teens As Teachers



Aerosol Activity – How Diseases Are Spread

Five primary modes

- Direct contact
- Aerosol
- Oral ingestion
- Fomite
- Vector-borne

Transfer of agents in aerosol droplets

- Most pathogens do not survive for long periods of time
 - Depends on temperature, humidity, wind speed, terrain, etc.
- Close proximity of infected animals to susceptible animals is required

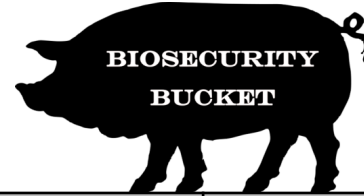




Biosecurity in a Bucket

- Youth the exhibit livestock of all species and sizes bring stuff! Everything but literally the kitchen sink at times...
- They have common areas where they set up camp called tack pens.
- In the event an issue occurs they can respond with the proper equipment.
- Roughly 200 youth will go through the Biosecurity Training with Dr. Andrew Bowman at 4-H Academy in June 2019





Item	Purpose
Bucket	1. Holds all supplies together 2. Mix liquid disinfectant or use for rinse water
Soap	Wash all animal care supplies before and after attending a show. Wash hands anytime you have animal contact.
Scrub brush	Scrub off all debris when washing supplies and boots.
Disinfectant	Disinfect all animal care supplies and boots after they have been cleaned.
Protective clothing	Wear coveralls or barn clothes whenever you have animal contact. Change immediately following being in the barn.
Gloves	Protect your hands from infectious disease by wearing gloves when you work with animals; especially if they are sick.
Boot covers/ Rubber boots	Have rubber boots to wear in the barn. Clean and disinfect regularly. Have visitors wear boot covers to enter your barn.
Face Mask	Protect yourself from inhaling infectious disease with a face mask when in contact with ill pigs.

