



# 4-H BIOSECURITY PROJECT



Biosecurity is security from exposure to harmful biological agents, and the measures taken to ensure this security. –*Merriam-Webster*. The goal of this project is to teach participants how to keep themselves and their animals safe in a variety of situations.

- Identify areas of risk around homes and at fairs
- Learn how biosecurity is practiced in the agricultural industry
- Why biosecurity is important for humans and animals

## 4-H Thrive!

Help Youth:

### Light Their Spark

A spark is something youth are passionate about; it really fires them up and gives them joy and energy. Help youth find how this project excites them.

### Flex Their Brain

The brain grows stronger when we try new things and master new skills. Encourage youth effort and persistence to help them reach higher levels of success.

### Reach Their Goals

Help youth use the GPS system to achieve their goals.

- Goal Selection:** Choose one meaningful, realistic and demanding goal.
- Pursue Strategies:** Create a step-by-step plan to make daily choices that support your goal.
- Shift Gears:** Change strategies if you're having difficulties reaching your goal. Seek help from others. What are youth going to do when things get in their way?

### Reflect

Ask project members how they can use their passion for this project to be more confident, competent and caring. Discuss ways they can use their skills to make a contribution in the community, improve their character or establish connections.

#### Starting Out *Beginner*

- Learn what zoonoses are.
- Map out the different routes diseases can be spread.
- Research the major biosecurity risks for one type of livestock.
- How do you practice biosecurity every day?

#### Learning More *Intermediate*

- Identify major biosecurity risks in the following areas: feed, waste disposal, visitors, young stock, and animal products.
- Research biosecurity practices used today.
- Do a report on a modern biosecurity problem.

#### Exploring Depth *Advanced*

- Design a biosecurity plan for a show you plan to take project animals to.
- Practice biosecurity when you take your project animals to a show.
- Teach your club about why biosecurity is important.
- Learn about important zoonotic risks of livestock.

The activities above are ideas to inspire further project development. This is not a complete list.

*Light Your Spark*

*Flex Your Brain*

*Reach Your Goals*

*Light Your Spark*

*Flex Your Brain*

*Reach Your Goals*



# Expand Your Experiences!

## Science, Technology, Engineering, and Mathematics

- Research modern developments in biosecurity.
- Explore how the health care system handles biosecurity.
- Visit a veterinarian and ask them about their biosecurity protocols.

## Healthy Living

- Discuss the importance of hygiene when handling animals.
- Teach your club how they can prevent spreading diseases.

## Citizenship

- Spread the importance of biosecurity and hygiene to your community.
- Keep yourself, your animals, and others safe when going to shows by practicing good biosecurity.

## Leadership

- Become a role model by taking on the position of junior/teen leader in your project.
- Teach younger members why biosecurity is important.

## Resources

- Environmental Protection Agency  
<http://www.epa.gov/agriculture/tbis.html>
- Food and Agriculture Organization  
<http://www.fao.org/biosecurity/>
- U.S. Department of Agriculture  
<http://usdasearch.usda.gov/search?utf8=%E2%9C%93&affiliate=usda&query=biosecurity&x=0&y=0&commit=Search>

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Connections & Events	Curriculum	4-H Record Book
<p><b>Presentation Days</b> – Share what you’ve learned with others through a presentation.</p> <p><b>Field Days</b> – At these events, 4-H members may participate in a variety of contests related to their project area.</p> <p><b>Field Visits:</b> Go to producers, or local universities with animal facilities and see biosecurity procedures first hand.</p>	<ul style="list-style-type: none"> <li>• Pre-Harvest Food Safety in 4-H Animal Science <a href="http://4h.ucanr.edu/Resources/Curriculum/FREE/Pre-Harvest_Food_Safety_in_4-H_Animal_Science/">http://4h.ucanr.edu/Resources/Curriculum/FREE/Pre-Harvest_Food_Safety_in_4-H_Animal_Science/</a></li> <li>• Bio-Security in 4-H Animal Science <a href="http://4h.ucanr.edu/Resources/Curriculum/FREE/Bio-Security_in_4-H_Animal_Science/">http://4h.ucanr.edu/Resources/Curriculum/FREE/Bio-Security_in_4-H_Animal_Science/</a></li> </ul>	<p>4-H Record Books give members an opportunity to record events and reflect on their experiences. For each project, members document their experiences, learning and development.</p> <p>4-H Record Books also teach members record management skills and encourage them to set goals and develop a plan to meet those goals.</p> <p>To access the 4-H Record Book online, visit <a href="http://ucanr.edu/orb/">http://ucanr.edu/orb/</a></p>

