



Wisconsin Ag in the Classroom

Monthly Themes- Links and Lessons

**December 2020– Turkeys, Poultry, Cranberries
and Christmas Trees**



www.wisagclassroom.org

About this series:

The Monthly Theme Lesson Series from Wisconsin Ag in the Classroom is a compilation of resources found on Ag in the Classroom, commodity, and other educational websites, YouTube, and sources.

Each month we will feature an animal and crop and share lesson plans, career information, activities and videos about them.

Thank you to all our Ag in the Classroom partners, commodity groups, American Farm Bureau Foundation for Agriculture, and other sources who help to tell the agricultural story and provide educational resources for our students, teachers and volunteers!

This issue:

Turkeys – Pages 3-5

Poultry – Pages 6-18

Christmas Trees – Pages 19-22

Cranberries- Pages 23=26

Turkeys

National Ag in the Classroom-

https://www.agclassroom.org/matrix/search_result/?search=turkeys

[A Rafter of Turkeys](#)

Students will learn about the domestication and life cycle of the turkey, recognize how turkeys are raised on farms, and identify turkey products.

[Animal Life Cycles](#)

This lesson introduces students to six major livestock species, teaches that animals need air, space, food, water, and shelter to survive, and introduces students to the life cycle of a farm animal.

[The Geography of Thanksgiving Dinner \(Grades 6-8\)](#)

In this lesson students will identify common Thanksgiving foods and their farm source, determine if those foods can be produced locally, and locate the common origins of their Thanksgiving day dinner.

[The Geography of Thanksgiving Dinner \(Grades 9-12\)](#)

In this lesson students will identify common Thanksgiving foods and their farm source, determine if those foods can be produced locally, and locate the common origins of their Thanksgiving day dinner.

Activity

[Farm Pop-Ups](#)

Students use this template to create a pop-up game to reinforce agricultural concepts concerning various plants and animals. Templates are available for apples, cows, dairy, pigs, sheep, and turkeys. Teachers can use the blank template to create their own pop-ups to reinforce concepts and understanding for any area of study.

Map/Infographic

[Interactive Map Project](#)

Use this interactive map to help students see how geography and climate affects the production of agricultural crops. The map has USDA statistics built in to allow your students to answer questions such as, "Which state(s) produce the most cattle?" "Where does [my state] rank nationally in corn production?" "What region of the United States produces the most cotton?" etc. There are many agricultural maps available including field crops such as corn, wheat,

barley, and alfalfa in addition to fruit and vegetable crops, ornamental nursery crops, and livestock.

Movie/Video

[Visit an Iowa Turkey Farm](#)

In this virtual farm tour, go inside a modern brooder barn to see two-week-old turkey poults and a grow out barn with 10-week-old turkeys. Learn how farmers use technology every day to regulate barn temperature, air flow, feed and water use, and monitor turkey health.

[Poultry Reader](#)

This printable four-page reader is packed with information about chickens, turkeys, and other poultry. Use this reader to share information about the parts of an egg, poultry-related careers, the diets of chickens, and more.

American Farm Bureau Foundation for Agriculture

- [Turkeys and Chickens and Eggs, Oh My! | Lesson](#)

Free resources for educators and ag literacy coordinators produced by the American Farm Bureau Foundation for Agriculture.

(<https://www.agfoundation.org/ag-lit-catalog/view/turkeys-and-chickens-and-eggs-oh-my-lesson>)

•

[Turkeys on the Farm by Mari C. Schuh - Recommended by ...](#)

This book introduces the reader to **turkeys** on the farm. It shows the different parts of the **turkey** as well as the difference between a tom and a hen. The book ...

(<https://www.agfoundation.org/recommended-pubs/turkeys-on-the-farm>)

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[Let's Talk Turkey](#)

Nov 19, 2018 ... Did you know that the bird cookin' in your kitchen this Thanksgiving is a descendant of the wild **turkey**? It was domesticated by the Aztecs nearly ...

(<https://www.agfoundation.org/news/lets-talk-turkey>)

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[Turkeys \(Blastoff! Readers: Farm Animals\) by Holly Enders ...](#)

This early reader book provides very basic information about **turkeys**. This is one of the few books in the farm animal series that we are recommending. Why?

(<https://www.agfoundation.org/recommended-pubs/turkeys-blastoff-readers-farm-animals>)

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[How did that get on my Thanksgiving Day plate?](#)

Nov 19, 2020 ... These **turkeys** have white feathers. Did you know? Benjamin Franklin proposed the **turkey** as the official United States bird. Dismayed by news of ...

(<https://www.agfoundation.org/news/how-did-that-get-on-my-thanksgiving-day-plate>)

•

[Books - Publications Recommended by American Farm Bureau ...](#)

Turkeys (Blastoff! Readers: Farm Animals). Holly Enders. 978-1-60014-086-0 ... **Turkeys** on the Farm. Mari C. Schuh. 978-0-7368-9384-8. Added: Dec 23, 2014.

(<https://www.agfoundation.org/recommended-pubs/category/books/P490>)

- **[Name that Stage | Activity Sheet](#)**

Turkeys and chickens are both poultry — domestic birds raised for eggs or meat. They have similarities and differences throughout their lifecycle. Use the word ...

(<https://www.agfoundation.org/ag-lit-catalog/view/name-that-stage-poultry-activity-sheet>)

- **[An EggCiting Poultry Adventure | Game](#)**

Related Resources. **Turkeys** and Chickens and Eggs, Oh My! | Lesson. View. Name that Stage | Activity Sheet. View · Foundational Knowledge · ~ 30 min or less.

(<https://www.agfoundation.org/ag-lit-catalog/view/an-egg-citing-poultry-adventure>)

- **[At Home Learning Nov 21](#)**

Nov 20, 2020 ... **Turkey** Time! This week we are featuring some lessons and activities all about our Thanksgiving favorites.

(<https://www.agfoundation.org/news/at-home-learning-nov-21>)

- **[Brainstorm | Ag Literacy Catalog](#)**

Turkeys and Chickens and Eggs, Oh My! | Lesson. Identify careers related to each step of production. Add to List · View · Ag & Economy · PreK-3rd Grade.

(<https://www.agfoundation.org/ag-lit-catalog/sort/category/brainstorm>)

[Iowa Turkey Federation](#)

<https://iowaturkey.org/in-the-classroom>

[Minnesota Turkey Growers](#)

<https://minnesotaturkey.com/turkeys/>

Videos- <https://minnesotaturkey.com/farmers/farmer-videos/>

[Temple Grandin Turkey Processing video](#)

<https://www.youtube.com/watch?v=852zxDEAR-Q>

[National Turkey Federation YouTube Channel](#)

<https://www.youtube.com/channel/UCAgAiFoPyxcoBPW8uX8lafA>

Other Poultry

Wisconsin Ag in the Classroom- <https://www.wisagclassroom.org/wp-content/uploads/2020/01/Poultry-Fact-Sheet.pdf>

This Business Called Agriculture- <https://www.wisagclassroom.org/this-business-called-agriculture/>

National Ag in the Classroom-
https://www.agclassroom.org/matrix/search_result/?search=poultry

[Be a DetEGGtive!](#)

Students will conduct a series of scientific investigations, identify and explain unique properties of eggs based on scientific investigations, and write a book to explain what they have learned.

[Eggs on the Menu](#)

Students will learn the versatility, function, and nutritional benefit of eggs in a healthy diet, identify the function and role of eggs in a recipe, identify forms of technology used on an egg farm, and understand how eggs are classified by size.

[FoodMASTER: Eggs](#)

Students will examine the process of egg production from hen to home, explore the parts of an egg, perform measurements of circumference and height, compare raw egg whites to egg white foams, and prepare meringue cookies.

[FoodMASTER: Meat, Poultry and Fish](#)

In this lesson students will learn how animals utilize nutrients and energy from food humans cannot digest and convert it to meat, a food rich in zinc, iron, and protein. Students will discover how hamburger is formulated for leanness, compare two kinds of hotdogs, and learn about fish.

[From Chicken Little to Chicken Big \(Grades 3-5\)](#)

Students will identify different breeds of chickens, examine physical characteristics, and determine the stages of a chicken's life cycle.

[From Chicken Little to Chicken Big \(Grades K-2\)](#)

Students will identify different breeds of chickens, examine physical characteristics, and determine the stages of a chicken's life cycle.

[The Life Cycle of a Chicken](#)

Create a colorful, egg-shaped chicken life cycle using the templates and egg tempera paint recipe provided in this activity.

[Chickens on the Farm](#)

This book for grades K-3 explores the importance of chickens in agriculture. Colorful photographs illustrate how farmers care for chickens, and fun facts are included throughout. Students will learn that there are more than 16 billion chickens on Earth, that *poultry* is another name for farm birds that people raise for meat and eggs, and much more.

[Jack & the Hungry Giant Eat Right with MyPlate](#)

Yummy! Colorful images of fruits, vegetables, grains, dairy, and protein foods fill the pages of this picture book starring Jack of beanstalk fame. Fortunately, the friendly giant in this version of the story is happy to invite a guest for dinner. As they cook together, Jack learns about the food groups that are a part of a well-balanced meal. The book is an appetizing way to introduce children to the MyPlate nutrition program, written and illustrated by Loreen Leedy.

[Livestock Cards](#)

Double-sided cards representing four livestock species. These cards can add a reading supplement activity to lesson plans to help teach the basic principles about beef cattle, dairy cattle, pigs, and poultry. The cards can be printed from the attached PDF or ordered from the Nebraska Foundation for Agricultural Awareness.

[Eggs 101: An Egg's Journey from the Farm to Our Tables](#)

Designed for the classroom, this collection of short videos showcases an egg's journey from the hen house to our plates. This flexible series includes seven videos that give an in-depth explanation of an egg's journey; from the barn experience to environmental management and from the egg itself to the homes of families nationwide.

[Virtual Chicken](#)

Watch the virtual animation of the step-by-step process of a hen producing an egg. Students will learn the parts of an egg as it is developed. This is an excellent way for students to gain a greater understanding of egg science.

[Poultry Reader](#)

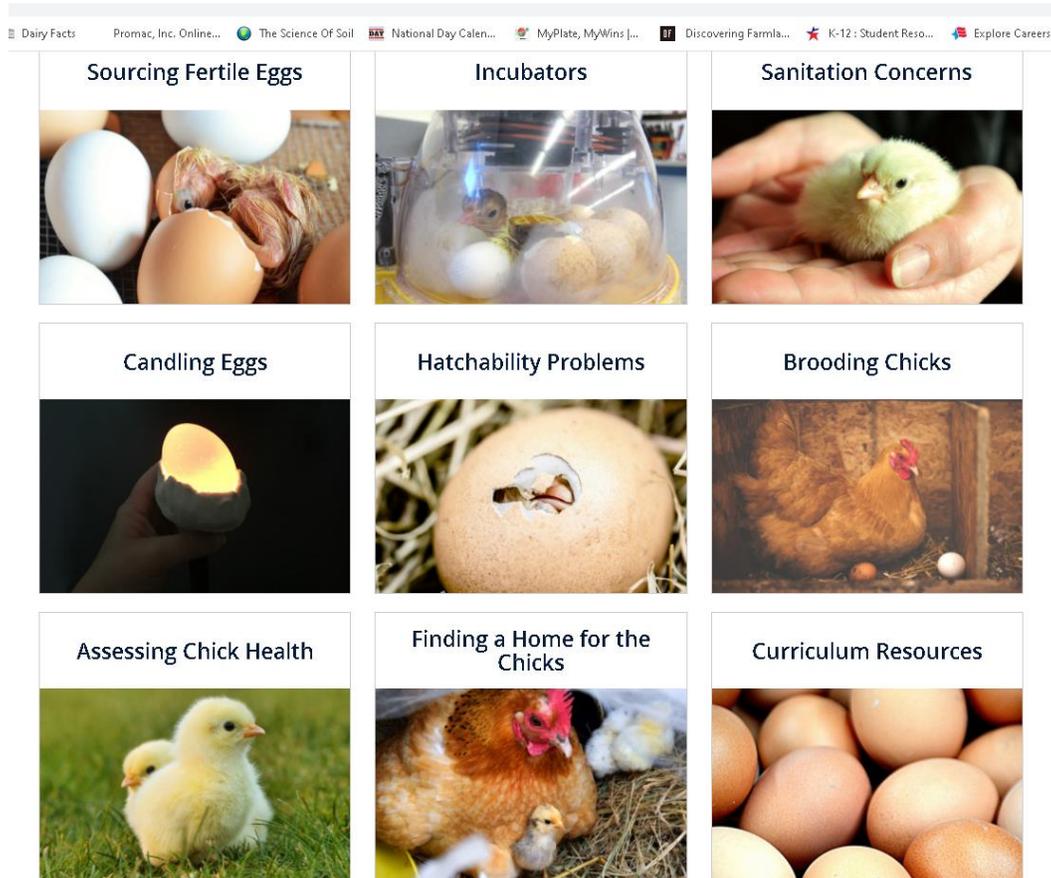
This printable four-page reader is packed with information about chickens, turkeys, and other poultry. Use this reader to share information about the parts of an egg, poultry-related careers, the diets of chickens, and more.

[Eggs in Schools](#)

The *Eggs in Schools* website has a variety of classroom resources and tools including virtual field trips, activities, games, cooking videos, and lesson plans.

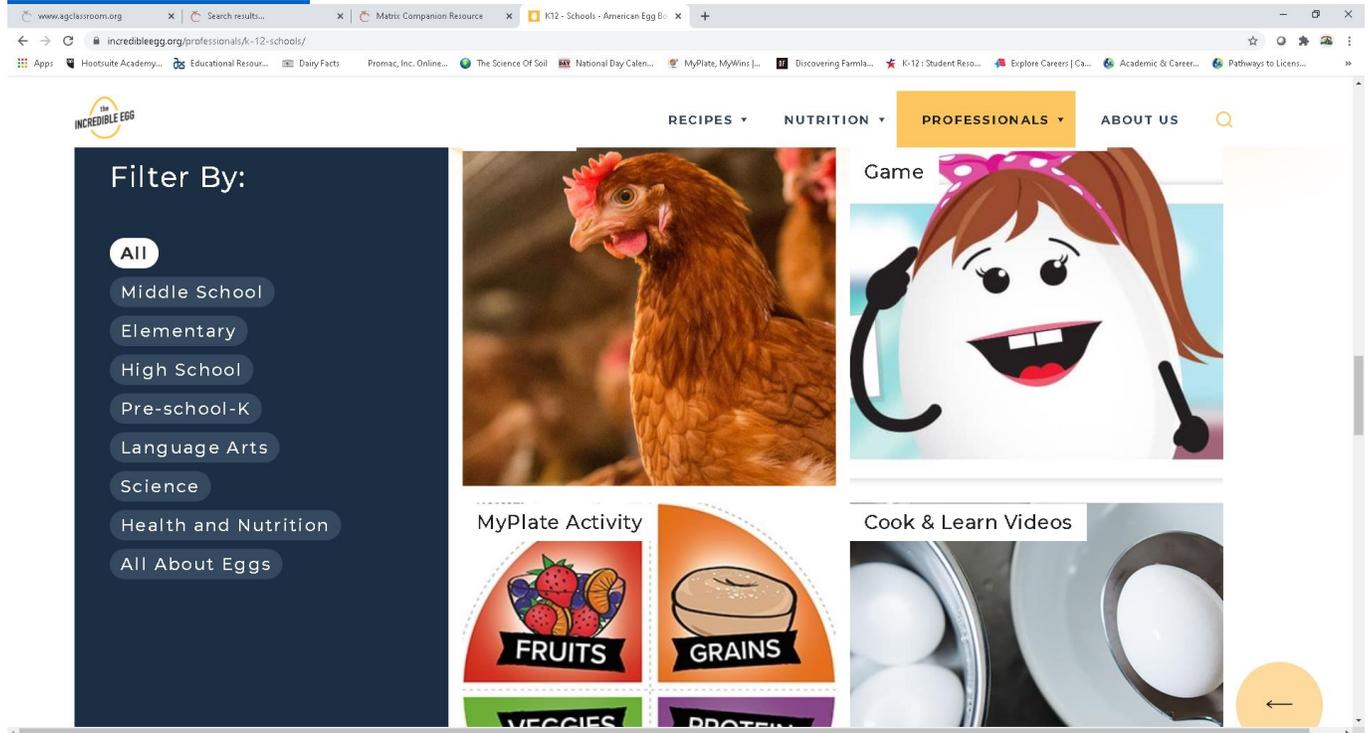
[Hatching Science Center- https://www.agclassroom.org/hatching/](https://www.agclassroom.org/hatching/)

Hatching chicks in the classroom can be an effective way to increase student engagement, investigate how organisms change and develop over time, and study embryology, life cycles, heredity, and animal needs. The Hatching Science Center offers practical information about the technical aspects of hatching chicks and provides relevant, hands-on activities for integrating embryology themes into core curriculum.



American Egg Board

<https://www.incredibleegg.org/professionals/k-12-schools/eggs-in-the-classroom/>



American Farm Bureau Foundation for Agriculture

- [Egg-Citing Poultry Adventure with U.S Poultry and Egg Association ...](#)
May 10, 2019 ... We were eggstremely pleased work with U.S **Poultry** and Egg Association and the USPOULTRY Foundation to hatch a fun math game for ...
(<https://www.agfoundation.org/news/online-poultry-game>)

- [An EggCiting Poultry Adventure | Game](#)

Free resources for educators and ag literacy coordinators produced by the American Farm Bureau Foundation for Agriculture.

(<https://www.agfoundation.org/ag-lit-catalog/view/an-eggciting-poultry-adventure>)

- [National 4-H Council Poultry Curriculum](#)

Jan/29/2019. Are you new to the 4-H **Poultry** Program? These **poultry** resources are an excellent guide to walk you through it! **Poultry** 1: Scratching the Surface: ...

(<https://www.agfoundation.org/news/national-4-h-council-poultry-curriculum>)

- [March 19 is National Poultry Day!](#)

Mar 19, 2020 ... National **Poultry** Day is a day to recognize domestic birds that are raised for their meat and eggs—and the farmers that make it possible!

(<https://www.agfoundation.org/news/march-19-is-national-poultry-day>)

Poultry Ag Mag

This standards aligned non-fiction resource introduces young readers to **poultry** and eggs. Includes fun facts, a career corner, parts of an egg, and much more!

(<https://www.agfoundation.org/ag-lit-catalog/view/poultry-ag-mag>)

Eggs & Poultry - Publications Recommended by American Farm ...

Recommended Publications. Eggs & **Poultry** ... Hollie Endres. 978-1600141126. Added: Dec 23, 2014. Animals & Food from Animals Eggs & **Poultry** Books ...

(<https://www.agfoundation.org/recommended-pubs/category/eggs-poultry>)

Career Spotlight! Virginia Poultry Farmer

Mar 19, 2019 ... We interviewed Lauren Arbogast, a Virginian Farmer to celebrate National **Poultry** Day. What is your job? I married into a farm in the ...

(<https://www.agfoundation.org/news/career-spotlight-virginian-poultry-farmer>)

Poultry Curriculum Helper's Guide by National 4-H Council ...

This guide helps assist adults with the **poultry** curriculum, including games and other activities. While dated, there is still a lot of good information on **poultry**.

(<https://www.agfoundation.org/recommended-pubs/poultry-curriculum-helpers-guide>)

Name that Stage | Activity Sheet

Turkeys and chickens are both **poultry** — domestic birds raised for eggs or meat. They have similarities and differences throughout their lifecycle. Use the word ...

(<https://www.agfoundation.org/ag-lit-catalog/view/name-that-stage-poultry-activity-sheet>)

Poultry Curriculum 3 - Flocking Together by National 4-H Council ...

Activities include: Plan a judging clinic, manage a flock, exploring careers, processing chickens, conducting **poultry** games and discuss values and ethics.

(<https://www.agfoundation.org/recommended-pubs/poultry-curriculum-3-flocking-together>)

Poultry Curriculum 3 - Flocking Together by National 4-H Council ...

Activities include: Plan a judging clinic, manage a flock, exploring careers, processing chickens, conducting **poultry** games and discuss values and ethics.

(<https://www.agfoundation.org/recommended-pubs/poultry-curriculum-3-flocking-together>)

Poultry Curriculum 2 - Testing Your Wings by National 4-H Council ...

Poultry Curriculum 2 - Testing Your Wings. By National 4-H Council. Part of the 4- H Skills for Life Animals Series. This one is designed for grades 5-7. Activities ...

(<https://www.agfoundation.org/recommended-pubs/poultry-curriculum-2-testing-your-wings>)

Poultry Ag Mag by American Farm Bureau Foundation for ...

This standards aligned non-fiction resource introduces young readers to **poultry** and eggs. Includes fun facts, a career corner, parts of an egg, and much more!

(<https://www.agfoundation.org/recommended-pubs/poultry-ag-mag>)

Poultry Curriculum 1 - Scratching the Surface by National 4-H Council

Poultry Curriculum 1 - Scratching the Surface. By National 4-H Council. Part of the 4-H Skills for Life Animals Series. This one is geared towards grades 3-4.

(<https://www.agfoundation.org/recommended-pubs/poultry-curriculum-1-scratching-the-surface>)

Where do Eggs Come From?

May 9, 2016 ... All eggs (and **poultry** meat, for that matter) are free of any added hormones or steroids because it's illegal to add these into a bird's diet. In fact ...

(<https://www.agfoundation.org/news/where-do-eggs-come-from>)

Ag Lit Catalog - A Custom List

URL: <https://www.agfoundation.org/ag-lit-catalog/view/soybean-ag-mag> · **Poultry** Ag Mag.

URL: <https://www.agfoundation.org/ag-lit-catalog/view/poultry-ag-mag> ...

(<https://www.agfoundation.org/ag-lit-catalog/my-list-view/mFgQYqgErphx9eZ>)

Does the United States import more agricultural products than we ...

... States agriculture exports accounted for \$135.54 billion with soybeans, beef, veal, pork, **poultry** and fresh and processed fruits and veggies topping the list.

(<https://www.agfoundation.org/common-questions/view/does-the-united-states-import-more-agricultural-products-than-we-export>)

Recommended Farm Books & Publications - Showing

Poultry Curriculum 1 - Scratching the Surface. National 4-H Council. Item: 06363. Added: Jan 01, 2018. Animals & Food from Animals Eggs & **Poultry** Educator ...

(<https://www.agfoundation.org/recommended-pubs/P46>)

Chickens (Farm Animals) by Kathryn Clay - Recommended by ...

Full color photographs show various chickens on the farm. This book is about chickens and not the **poultry** industry.

(<https://www.agfoundation.org/recommended-pubs/chickens1>)

Recommended Farm Books & Publications - Showing

Poultry Curriculum 2 - Testing Your Wings. National 4-H Council. Item: 06364. Added: Jan 24, 2018. Animals & Food from Animals Eggs & **Poultry** Educator ...

(<https://www.agfoundation.org/recommended-pubs/P23>)

University of Wisconsin Poultry-

<https://fyi.extension.wisc.edu/poultry/educational-resources/>

Educational Resources

Educational Resources

[Should I Raise A Small Poultry Flock](#) (8 pages)

[The Laying Flock](#) (20 pages)

[Careers in Poultry Science](#) (17 pages)

[Preparing for Winter](#) (27 pages)

Housing Plans

Brooder House Plans (2 pages)

Laying House Plans (3 pages)

Bantam / Show Breed House Plans (4 pages)

Pigeon House Plans (3 pages)

Meat-type Chickens

Raising Meat-type Chickens (41 pages)

Home Processing Guide (13 pages)

4-H and FFA Project Guides by David Laatsch, former Dodge County UWEX agent and FFA instructor

Raising Ducks as a 4-H or FFA project

Raising Range Fed Chickens as a 4-H or FFA Project

Raising Roasters and Broilers

Raising Turkeys as a 4-H or FFA project

Eggs and Raising Ready-To-Lay Pullets as a 4H or FFA Project

U.S. Poultry and Egg Association-

https://www.uspoultry.org/t_resources/

Teacher Resources

U.S. Poultry & Egg Association Education Resources

USPOULTRY Video Examines Poultry Packaging Labels

Raised without antibiotics, No Hormones Added, All-natural, Organic, etc...the meat case at any local grocery store displays a wide assortment of descriptive labels on the packages of refrigerated and frozen food products that are purchased for cooking. For some shoppers, the terms on the labels are confusing. While some may hardly notice or take the time to read them, for others, the labeling can raise questions. This video provides some clarity about the labeling of fresh and frozen chicken and turkey products and also reassures that American poultry products are among the safest and healthiest foods anywhere in the world. The video can be accessed by clicking [here](#). An

infographic that explains the various poultry packaging labels can be found by clicking [here](#).

Poultry & The Hormone Myth

One of the most common...and frustrating...questions for U.S. poultry producers is why hormones are used to grow birds bigger and faster. Of course, the actual simple answer is no hormones are used. To address this continuing misinformation, U.S. Poultry & Egg Association has prepared a new video to explain the scientific, economic and legal reasons hormones are not needed or used by the U.S. poultry industry. The video can be accessed [here](#).

[Raising Chickens and Turkeys...for today and tomorrow](#), a video from U.S. Poultry & Egg Association, allows you to take a peek behind America's dynamic poultry industry. From the hatchery to the farm, chickens and turkeys follow quite a journey as they feed the demands of a hungry world. Through research and innovation the industry is at the forefront of advances in food production while preserving the heritage of the family farm and contributing to a healthier planet.

[An Inside Look at Poultry Processing](#), provides a look at how chickens and turkeys are processed in the United States. The video takes a behind-the-scenes look at today's high-tech, highly efficient poultry processing plants and highlights the food safety and sanitation practices employed by the modern poultry industry.

Purdue University High School EGG Curriculum

Poultry and egg production is an important part of agriculture and food production in the United States, especially in the Midwest.

This [website](#) contains research-based, online STEM curriculum resources focused on the egg industry for elementary and high school students.

Companion study: [Poultry in the classroom: effectiveness of an online poultry-science-based education program for high school STEM instruction](#)

Poultry & Egg Production Curriculum

This thirteen lesson plan series - [Poultry & Egg Production Curriculum](#) - provides agriculture educators with a comprehensive curriculum resource needed to teach students about the commercial poultry and egg industry. A professional curriculum consultant aligned the lesson plans to national Education Content Standards in Agriculture.

A version aligned with California curriculum content standards is available from the California Poultry Federation, www.cpif.org.

An Egg-citing Poultry Adventure



With funding provided by the USPOULTRY Foundation, USPOULTRY and the American Farm Bureau Foundation for Agriculture launched a new My American Farm game, along with a supporting lesson plan, an activity sheet and an eComic. The An Egg-Citing Poultry Adventure game and resources were developed to help third through fifth grade students better understand the poultry and egg industry, with students adventuring through the progression of stages in poultry and egg production in the game. The game and learning resources are free, and we ask all of our members to share them with your local school contacts. The An Egg-Citing Poultry Adventure game is available at http://myamericanfarm.org/classroom/games/?gid=poultry_egg.

Agriculture

The [Animal Agriculture Alliance](#) site provides educational information for Teachers, Ag Information and Educational Links. This is an easy and effective educational tool to understand the role animal agriculture plays in providing a safe, abundant food supply to a growing world.

[Farm Safety 4 Just Kids](#), provides resources and training to individuals and communities to conduct farm safety awareness and education programs.

[Science for Kids](#) is sponsored by the **Agricultural Research Service**. Designed for children ages 8-13, the Web site explains how science affects everyday life and why it can make an interesting career.

BASF's eye opening video "[One Hungry Planet](#)" about farming in America!

[The Voice of Agriculture - American Farm Bureau](#): Farm Bureau Store offers teachers guides and educational materials for grades K -12.

[Bureau of Labor Statistics](#): From junior high to college and beyond, students and teachers can use **BLS** to aid in their homework and course planning. Students can use our data in their career exploration and to help with their homework. Teachers can use our resources to enhance curriculums using

real world examples such as the latest statistics on employment, prices, and wages. 

Eggs

Aeration, coagulation, crystallization control, emulsification, and foaming properties of egg products are words found in Family and Consumer Sciences curriculums. Functionalegg.org has designed their website to provide you with valuable information about the amazing multi-functional benefits of egg products in a variety of food formulations.

University of Illinois: How does an egg develop from the time it is laid to the time it hatches? Come explore with us the fascinating [21-day life cycle](#) of the embryological chick.

[EggMath](#) is a collection of web modules (including many interactive applets) covering different topics in mathematics related to eggs; it is intended for use in K-12 classrooms, as in the Chickscope project at the University of Illinois **Beckman Institute** at the University of Illinois.

[Embryology in the Classroom](#): This Web site was developed by **PennState University**, to support the National 4-H Curriculum Embryology project material and help you - the teacher, the project leader, or the individual doing an independent study - become more familiar with the details of embryonic development.

United Egg Producers'[The Egg Safety Center](#), provides education on ways to further reduce the incident of food-borne illness related to egg products. 

Food Safety

[Food Safety and Food Security](#): What Consumers Need to Know is designed to help educate consumers regarding food safety. The 15-page brochure is available in English or Spanish. It was produced by the **U.S. Department of Agriculture Food Safety and Inspection Service**. The brochure offers useful tips for safe food preparation and for keeping foods safe from contamination. For more information, call (888) 674-6854.

[Become a Food Detective](#): **New Mexico State University**, in conjunction with the **University of Virginia and the U.S. Department of Agriculture**, has created a "fun-packed" site to help teach children about food safety and bacteria.



[The Partnership for Food Safety Education Web site](#) has a special section for educators. It includes food safety fact sheets, information on creating a seasonal food safety education campaign, a community action kit, a public service announcement, and a copy of BACTALK, the group's newsletter.



The *Food Safety Educator*, produced by the U.S. Department of Agriculture's Food Safety and Inspection Service, is a free newsletter that deals with food safety issues. To order a subscription, send an [e-mail](#) to FSIS outreach.

The **Federation of Animal Science Societies** offers FASS Facts on Biotech Crops: Impact on Meat, Milk and Eggs. The brochure was created to share science-based information with those interested in food animal and crop production. The brochure is available on the [FASS](#) Web site.

The **American Museum of Natural History** sponsors [Infection Detection Protection](#). This site, specifically geared to children, includes general information on microbes and a "Bacteria in the Cafeteria" section.

Cooking for Groups: A Volunteer's Guide to Food Safety provides safe food handling information for volunteer cooks. The 40-page publication targets information to cooking facilities that frequently aren't covered by the same food codes that apply to commercial food service. It can be downloaded from the [Food Safety and Inspection Service](#) Web site.



[Safe Food for the Hungry](#) is a newsletter and Web site for staff and volunteers of emergency feeding programs. Every issue has a "recipe" section that focuses on safe use of federally donated foods. [U](#)

Poultry

The [Chicken Breed flip book](#) provides information on various breeds of chickens, including the Plymouth Rock, Red Ranger, Rhode Island Red, Red Star, Cornish Game, White Leghorn and Delaware.

[The Science of Poultry and Meat Processing](#) by Dr. Shai Barbut, University of Guelph is a comprehensive discussion of the poultry processing industry, that is also easily accessible and available as a free download. The book which

provides students and industry personnel with a detailed overview of the modernized meat industry focusing exclusively on poultry and poultry meat processing. The book is comprised of 18 chapters, which include discussion of muscle structure and physiology, live bird handling, stunning, inspection and grading, fabrication and fresh meat composition.

This [unique presentation](#) is an interactive overview of the anatomy of a chicken produced by Merial Australia and the Australian Poultry. Developed by Poultry CRC.

University of Nebraska - Lincoln: [4-H Embryology](#) provides some great photos of a chick hatching and some video clips to watch.

[Penn State Extension](#) - this web site has been developed to support the "Embryology In The Classroom" curriculum released in 2001. Educators will find it extremely helpful as a resource for teaching embryology in the classroom. Embryology: The Study of Life is designed to provide you with background information and exciting experiential activities dealing with life science for use in your classroom. Each activity is designed to be grade-level appropriate and has been correlated to the U.S. National Science Education Standards.

The following resources are available from the [Delmarva Poultry Industry](#):

[Chicken: From the Egg to Your Table](#) is a teacher resource manual that includes information and activities for use in Pre-K to third grade. Word searches, coloring sheets, and math and language activities will help students better understand how chicken goes from the egg to the table. The first copy is free for teachers.

[Thinking Chicken](#) is a 11-minute downloadable video designed, by the **Delmarva Poultry Industry**, to help fourth grade students gain an increased awareness of chicken, its production, and its importance to the Delmarva peninsula.

[Delmarva's Chicken Industry: From Family Farms to America's Tables](#) is a 13-minute downloadable video intended for use with adult, general public audiences. The video provides viewers with insight into the economics and importance of Delmarva's chicken industry and highlights positive ways in which the chicken industry works to protect the environment.

Auburn University Department of Poultry Science has developed [Virtual Chicken](#), a downloadable video. Is the exploration of the reproductive system of a hen, showing the formation of an egg as it passes through the oviduct. Viewers ;see the oviduct in the context of the larger anatomy, explore the oviduct and follow the path of the formation of an egg. 

POULTRY & EGG PRODUCTION CURRICULUM

A Resource for High School Agriculture Teachers

INTRODUCTION

LESSON 1: INTRODUCTION TO THE POULTRY INDUSTRY

LESSON 2: HISTORY OF THE POULTRY INDUSTRY

LESSON 3: CHICKEN GENETICS AND REPRODUCTION

LESSON 4: TURKEY REPRODUCTION

LESSON 5: BROILER PRODUCTION

LESSON 6: EGG LAYER PRODUCTION

LESSON 7: TURKEY PRODUCTION

LESSON 8: EGG PROCESSING

LESSON 9: POULTRY PROCESSING

LESSON 10: NICHE POULTRY MARKETS

LESSON 11: POULTRY ANATOMY AND PHYSIOLOGY

LESSON 12: POULTRY HEALTH AND WELFARE

LESSON 13: BIOSECURITY

ACKNOWLEDGMENTS AND OTHER RESOURCES



THE POULTRY & EGG
INSTITUTE.

Christmas Trees

Wisconsin Christmas Tree Producers Association

<https://www.christmastrees-wi.org/content/info/info-for-teachers>

Kid-friendly version of growing Christmas trees: [How Stuff Works-](https://people.howstuffworks.com/culture-traditions/holidays-christmas/christmas-tree.htm)

<https://people.howstuffworks.com/culture-traditions/holidays-christmas/christmas-tree.htm>

National Christmas Tree Association-

<https://realchristmastrees.org/Education/>

University of Illinois Extension: multiple links pertaining to Christmas trees:

- <http://www.urbanext.uiuc.edu/trees/education.html>

- <http://www.urbanext.uiuc.edu/trees/treefacts.html>

Environmental Education for Kids: <http://dnr.wi.gov/eek/>

LEAF: Learning, Experiences, and Activities in Forestry

<http://www.uwsp.edu/cnr/leaf/>

National Ag in the Classroom-

https://www.agclassroom.org/matrix/search_result/?search=discover%20christmas

https://www.agclassroom.org/matrix/search_result/?search=christmas%20trees

[Discover Christmas Trees \(Grades 3-5\)](#)

This lesson is composed of six learning activities to teach about the Christmas tree. Science, history, and geography topics are used to explore the history of the Christmas tree, life cycle of a conifer, types of trees and how they adapt, work on a Christmas tree farm, and the ecology of conifer trees.

[Discover Christmas Trees \(Grades K-2\)](#)

This lesson is composed of six learning activities to teach about the Christmas tree. Science, history, and geography topics are used to explore the history of the Christmas tree, life cycle of a conifer, types of trees and how they adapt, work on a Christmas tree farm, and the ecology of conifer trees.

[Value-adding on a Christmas Tree Farm](#)

In this activity, students will learn how to add value to Christmas trees by making scented pillows from balsam fir needles which can be used for gifts or potentially as a fundraiser for your classroom. Older students can also calculate the potential income from selling their value-added projects.

[Christmas Farm](#)

When Wilma decides her garden needs a new beginning, she gathers all her supplies and sixty-two dozen balsam seedlings to start a Christmas tree farm. Follow Wilma and Parker, her five-year-old neighbor, year after year as they nurture their trees, keeping careful count of how many they plant, how many perish, and how many grow to become fine, full Christmas trees. A great holiday read-aloud for the month of December.

Interactive map- <https://www.agclassroom.org/matrix/resource/452/>

Use this interactive map to help students see how geography and climate affects the production of agricultural crops. The map has USDA statistics built in to allow your students to answer questions such as, "Which state(s) produce the most cattle?" "Where does [my state] rank nationally in corn production?" "What region of the United States produces the most cotton?" etc. There are many agricultural maps available including field crops such as corn, wheat, barley, and alfalfa in addition to fruit and vegetable crops, ornamental nursery crops, and livestock.

Why are Christmas trees harvested by helicopter? What does cutting them down mean for the environment versus an artificial tree? Discover how Christmas trees are grown and harvested on an Oregon farm.

American Farm Bureau Foundation for Agriculture (www.agfoundation.org) and search “Christmas Trees”

- **[How do Christmas Trees Grow?](#)**

Dec 1, 2016 ... Learn what it takes to grow a **Christmas tree** from a real **Christmas tree** farmer!

(<https://www.agfoundation.org/news/how-do-christmas-trees-grow>)

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- **[Christmas Tree Farm by Ann Purmell - Recommended by American ...](#)**

This book examines the production and marketing of **Christmas trees**. It begins with harvest on a family-owned **Christmas tree** farm but progresses to planting ...

(<https://www.agfoundation.org/recommended-pubs/christmas-tree-farm>)

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- **[How does farming and ranching impact wildlife habitat?](#)**

How Do **Christmas Trees** Grow? Dec/01/2016. Hint: It takes a lot of love to grow a **Christmas tree**! We talked to Ben Butler, a **Christmas tree** farmer from Butler's ...

(<https://www.agfoundation.org/common-questions/view/how-does-farming-and-ranching-impact-wildlife-habitat>)

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- **[Trees, Forestry & Wood Products - Publications Recommended by ...](#)**

Christmas Tree Farm. Ann Purmell. 978-0-8234-1886-2. Added: Dec 23, 2014. Plants, Foods from Plants & Goods from Plants Trees, Forestry & Wood Products ...

(<https://www.agfoundation.org/recommended-pubs/category/trees-forestry-wood-products>)

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- **[Ten things that didn't make you think “farm” until now](#)**

Nov 1, 2018 ... Maple syrup comes from trees on a maple tree farm. Yes, farm! The process ... Yum.) Check out our interview with a real **Christmas tree** farmer!

(<https://www.agfoundation.org/news/10-thing-that-didnt-make-you-think-farm-until-now>)

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- **[Agricultural Literacy News Archive](#)**

Hint: It takes a lot of love to grow a **Christmas tree**! We talked to Ben Butler, a **Christmas tree** farmer from Butler's Orchard to get the scoop on these festive firs ...

(<https://www.agfoundation.org/news/P140>)

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- **[Recommended Farm Books & Publications - Showing](#)**

Christmas Tree Farm. Ann Purmell. 978-0-8234-1886-2. Added: Dec 23, 2014. Plants, Foods from Plants & Goods from Plants Trees, Forestry & Wood Products ...

(<https://www.agfoundation.org/recommended-pubs/P207>)

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- **[Farm Books & Publications - Recommended by American Farm ...](#)**

Christmas Tree Farm. Ann Purmell. 978-0-8234-1886-2. Plants, Foods from Plants & Goods from Plants Trees, Forestry & Wood Products Books Elementary ...

(<https://www.agfoundation.org/recommended-pubs/sort>)

Wisconsin Ag in the Classroom- this year our Wisconsin Farm Facts 2020 featured the green industry so we covered some statistics and career info. Wisconsin Farm Facts and bookmarks are free and can be ordered online at <https://www.wisagclassroom.org/product-category/free-resources/>.

Commodity poster sheets- <https://www.wisagclassroom.org/wp-content/uploads/2019/09/Christmas-Trees-Fact-Sheet.pdf>

In our Fun Faces of Wisconsin Agriculture, the Freddy Fir lesson plans from Wisconsin Ag in the Classroom are on Christmas trees. See the Freddy Fir lesson at the very bottom- <https://www.wisagclassroom.org/lessons-resources/classroom-lessons/fun-faces/>

This Business Called Agriculture- <https://www.wisagclassroom.org/this-business-called-agriculture/>

Videos-

Northern Family Farms- <https://youtu.be/c4Y-0q8lig4>

Penn State Extension- <https://youtu.be/-1jG9C2QBVU>

Wisconsin Christmas Tree Producers channel- **RealTree4meWI**
<https://youtu.be/Q-FDOPXMGF4>

Cranberries

Wisconsin Ag in the Classroom

This Business Called Agriculture- <https://www.wisagclassroom.org/this-business-called-agriculture/>

Cranberry Commodity sheet- <https://www.wisagclassroom.org/wp-content/uploads/2020/01/Cranberries-Fact-Sheet.pdf>

Cranberry STEAM Learning Project-

<https://www.wisagclassroom.org/lessons-resources/classroom-lessons/cranberry-steam-learning-project/>

Wisconsin State Cranberry Growers Association-

Educational resources- <http://www.wiscran.org/cranberries/education/>

Other links- <http://www.wiscran.org/cranberries/>

YouTube videos-

https://www.youtube.com/channel/UCThTx8xQKtZtmi_mTN1FP2w

Wisconsin Cranberry Discovery Center-

<http://www.discovercranberries.com/>

Wetherby Cranberry Co- <https://freshcranberries.com/>

Discover Wisconsin-

<http://discoverwisconsin.com/video/wisconsins-state-fruit-cranberry/>

<https://youtu.be/RR0MPujcas4>

American Farm Bureau Foundation for Agriculture (www.agfoundation.org) and search "Cranberries"

- [Time for Cranberries Book](#)

From the **cranberry** bog to the Thanksgiving table, join Sam and his family as they harvest a classic American fruit. When the vines hang heavy with berries that ...

(<https://www.agfoundation.org/ag-lit-catalog/view/time-for-cranberries-book>)

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- [Cranberries by Inez Snyder - Recommended by American Farm ...](#)

This book introduces readers to the **cranberry**. It begins with **cranberries** growing on a vine and continues until **cranberry** sauce and other foods are made.

(<https://www.agfoundation.org/recommended-pubs/cranberries>)

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- [Time for Cranberries by Lisl H. Detlefsen - Recommended by ...](#)

This charming book follows a little boy Sam, and his family, as harvest **cranberries**. It tells the story from field to table, showing readers where their **cranberries** ...

(<https://www.agfoundation.org/recommended-pubs/time-for-cranberries>)

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- [How did that get on my Thanksgiving Day plate?](#)

Nov 19, 2020 ... They grow on dry land and are harvested using water because **cranberries** float! Are you a whole or jellied **cranberry** sauce kind of person?

(<https://www.agfoundation.org/news/how-did-that-get-on-my-thanksgiving-day-plate>)

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- [The Gifts of Strangers](#)

Feb 29, 2016 ... Lisl is a children's book author and lives on a family-owned **cranberry** marsh in Wisconsin. She also gives programs on writing and **cranberries** to ...

(<https://www.agfoundation.org/news/the-gifts-of-strangers>)

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- [At Home Learning Nov 21](#)

Nov 20, 2020 ... Bonus: Watch author Lisl H. Detlefsen read her book "Time for **Cranberries**" in a **cranberry** bog!

(<https://www.agfoundation.org/news/at-home-learning-nov-21>)

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- [What Questions Do Your Kids Have About Agriculture?](#)

Nov 23, 2020 ... Check out the response to "Do **cranberries** grow in water?" Learn more and submit your questions ...

(<https://www.agfoundation.org/news/what-questions-do-your-kids-have-about-agriculture>)

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- [Ag & Environment | Ag Literacy Catalog](#)

From the **cranberry** bog to the Thanksgiving table, join Sam and his family as ... it's time for **cranberries**, and Sam is finally old enough to help with the harvest!

(<https://www.agfoundation.org/ag-lit-catalog/sort/category/ag-environment/P40>)

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- [I Like Berries by Jennifer Julius - Recommended by American Farm](#)

...

It contains text about **cranberries** and red currants but photos only of **cranberry** sauce and currant jam. The one glaring error is that the author confuses ...

(<https://www.agfoundation.org/recommended-pubs/i-like-berries>)

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Free At Home Educational Activities About Agriculture: Week 1

Mar 25, 2020 ... Before you watch the video ask "how do you think **cranberries** grow?" Then watch the video to see if they were right! Check back next week for ...

(<https://www.agfoundation.org/news/free-at-home-educational-activities-about-agriculture-week-1>)

National Ag in the Classroom-

https://www.agclassroom.org/matrix/search_result/?search=cranberries

The Geography of Thanksgiving Dinner (Grades 6-8)

In this lesson students will identify common Thanksgiving foods and their farm source, determine if those foods can be produced locally, and locate the common origins of their Thanksgiving day dinner.

The Geography of Thanksgiving Dinner (Grades 9-12)

In this lesson students will identify common Thanksgiving foods and their farm source, determine if those foods can be produced locally, and locate the common origins of their Thanksgiving day dinner.

Time for Cranberries

From the cranberry bog to the Thanksgiving table, join Sam and his family as they harvest a classic American fruit. When the vines hang heavy with berries that the autumn winds have turned deep red, it's time for cranberries, and Sam is finally old enough to help with the harvest! This charming, lyrical picture book follows Sam and his family as they raise the water in the bog, pick the cranberries, and gather the fruit for processing. It's a story of modern family farming in action, showing readers where their food comes from but mostly delighting them along the way. This book is a great companion to lessons on farming, harvesting, use of machines, Thanksgiving, or cranberries.

How does it grow? <https://www.agclassroom.org/matrix/resource/472/>

A great video to celebrate Thanksgiving. See an enactment of the first North American Thanksgiving at Plymouth. Watch children put on hip waders and go chest high into the bog during the fall cranberry harvest. *Cranberry Bounce* introduces children to the seasons on a

cranberry farm. Along the way, they learn about the biology of cranberry reproduction, geography of cranberry growing areas, some cranberry recipes, and cranberry decorations.

[How Does it Grow? Video Series](#)

This video series follows food from farm to fork. Learn more about potatoes, asparagus, mushrooms, cranberries, garlic, cauliflower, spinach, oranges and more. These videos are a great way to introduce secondary students to food science, cooking, and to increase understanding of the source of our food.

[Thanksgiving Maps and Posters](#)

Visit this website to see maps and graphs to discover where your Thanksgiving dinner foods such as green beans, carrots, celery, sweet corn, cranberries, onions, pecans, potatoes, pumpkins, squash, sweet potatoes, turkey, and wheat were produced.

Exploring Cranberries- <https://www.cranberries.org/exploringcranberries/index.html>

Ocean Spray- <https://www.oceanspray.com/en/Foodservice/Segments/Schools/Cranberries-In-The-Classroom>

