

4-H Youth Development Initiatives and Trends for County Plan of Work 2016-2020

Core Curriculum: Agriculture

Major Initiative: Creating awareness of the impact of agriculture on daily life and developing marketable skills for the future.

Specific situation/trend description: Kentucky is home to 85,500 farms, tied with Oklahoma as the 4th ranking state in the number of farms (National Agricultural Statistics Service, 2012). The average farm size in Kentucky is 164 acres, compared to the national average of 421 (National Agricultural Statistics Service, 2012). Between 2007 and 2012, the Bluegrass State had a 6.7% decrease in the number of acres of farmland, which is the greatest percentage decrease any state in the country (Census of Agriculture, 2012). A farm is defined by the United States government as “any place that produced and sold, or normally would produce and sell, \$1,000 or more of agricultural products during the census year.” While Kentucky’s population is increasing, the number of people living on farms is decreasing. Therefore, the need exists to educate people, particularly youth, about the impact that it makes on their daily lives, as well as the importance of agriculture to the commonwealth. The top agricultural products produced on Kentucky farms are changing. In 2012, the Top 10 agriculture products in Kentucky were: Broilers, Corn, Horses & Mules, Soybeans, Cattle & Calves, Tobacco, Dairy Products & Milk, Wheat, Hay and Chicken Eggs (United States Department of Agriculture – Kentucky, 2012).

In order to provide agricultural education to youth, counties will either plan and conduct an **Ag Day Program**, designed to educate participants on the value of agriculture to Kentucky’s economy and the impact that agriculture has on their daily lives or teach **Ag in the Classroom** to elementary school students.

Long Term goals/outcomes

- Youth will engage in entrepreneurial enterprise.
- Youth will gain and maintain employment resulting from life skill development through 4-H.
- Youth will be advocates for agriculture and healthy and sustainable food systems.

Intermediate goals/outcomes:

- Youth will practice and apply skills and knowledge in the production of food and fiber in the areas of plant sciences, horticulture and animal sciences.
- Youth will adopt and practice skills that contribute to employability.
- Youth can explain the role of agriculture in daily life to others.
- Youth will set a goal and accomplish it.
- Youth can influence the purchase of Kentucky Proud products.
- Youth can practice entrepreneurship skills related to agriculture and food systems.

Short-term goals/outcomes:

- Youth will gain knowledge and skills in the production of food and fiber in the areas of plant sciences, horticulture and animal sciences.
- Youth will gain an understanding of healthy and sustainable food systems.
- Youth will develop valuable life-skills, including decision-making, communications, record-keeping, leadership and service.

Evaluation measures/Impact Indicators-

- The number of youth who demonstrate a skill that was learned and improved by participating in a 4-H ANR project, program, event or activity.

- The number of youth that keep production, performance or financial records on their 4-H agriculture projects.
- Number of youth who set a goal and accomplish it.
- Number of youth who understands the role of agriculture in the production of food and fiber.

Role of 4-H Youth Development Program-Inputs

New efforts on the horizon planned for next Four Year Plan of Work

- Coordinating the adoption of a uniform Ag in the Classroom curriculum.
- Development of an ANR Workgroup to review curricular needs of Plant Sciences and Horticulture.

Existing resources from Core Curriculum

After School Agriculture Series:

Acres of Adventures 1

Adults and older youth will enjoy using the 40 lesson plans to quickly engage youth in topics of agriculture and life sciences while expanding your collection of fun-filled after-school science activities. Learn-by-doing agriculture activities within the following units: Plant Detectives, Mystery Agriculture, All about Agriculture, Fast Food Agriculture. This curriculum was designed for use in after-school childcare settings but can be used in clubs camps, classrooms, etc. (100 pages) Intended user: volunteers working with youth in grades 3-5

Source: National 4-H Supply Service

N4-HSS 08330 \$7.50

Acres of Adventures 2

This group activity guide provides ready to use lesson plans that will quickly involve youth in experiential activities related to the following units: Insect Invasion, Farm Physics, Agriculture Gone Wild, and Frontier Living. This curriculum was designed for use in after-school childcare settings but can be used in clubs camps, classrooms, etc. (100 pages) Intended user: volunteers working with youth in grades 3-5

Source: National 4-H Supply Service

N4-HSS 08331 \$7.50

N4-HSS Set of 2 08332 \$14.50

Kentucky Farm 2 School (approved for NEP grant)

The Kentucky Farm 2 School (KF2S) Curriculum is a series of eight lessons to teach youth to: 1) Recognize the source of their foods; 2) Explain the relationship of local production to improved food quality and nutrition; 3) Understand the importance of thriving agricultural businesses to healthy communities; 4) Identify the skills and knowledge individuals need to succeed in the farming industry; 5) Increase consumption of locally produced food and agricultural products; 6) Increase consumption of fruits and vegetables. This research-based curriculum provides: curriculum overview, Kentucky core academic standards, curriculum matrix, planning guide, tips for delivery, evaluation tools, additional resources, and references. The curriculum includes an introductory unit, one unit for each food/commodity group, a unit on oils and sugars, and a summary unit. Each interactive unit contains a facilitator's guide/lesson plan and handouts and/or activity sheets. Intended User: volunteers working with high school aged youth

Source: Kentucky Cooperative Extension, hard copies available from Jackie Walters (859-257-2948);

Download from the Kentucky Department of Agriculture site

at: http://www.kyagr.com/consumer/documents/FD_FS_Curriculum.pdf

KY CES

Download at no charge

Beef:

State Contact: Steve Austin

Beef Resource Handbook

This handbook is a one-stop source for essential subject matter information for members taking a market beef, beef breeding, beef feeder calf, dairy beef feeder or dairy steer project. This is an excellent resource for Skill-a-thons. Content covers everything from selection to reproduction to sale. Order this book only once and use it for several years. (about 300 pages) Intended user: youth ages 9-18 and volunteers working with youth

Source: Ohio State University

OSU CES 4-H 117R \$18.25

Beef Project & Record Book

Complete this required project book every year a beef project is taken. This streamlined version of four previously separate publications allows for multiple projects and can be used by members at all levels. Use with 117R Beef Resource Handbook. (48 pages) Intended user: youth ages 9-18

Source: Ohio State University

OSU CES 113 \$6.25

Beef, Sheep, Swine Selection Evaluation

This optional resource is for beginners who want to learn more about selecting and evaluating livestock. Purchase only once and refer to it when selecting projects or before attending a judging contest. 1995. Order it only once and refer to it when selecting projects or before participating in a judging contest. (73 pages) Intended user: older youth ages 13-18

Source: Ohio State University

OSU CES 103R \$10.75

Dairy Cattle:

State Contact: Dr. George Heersche and Larissa Tucker

Dairy Cow Project & Record Book

Complete this required project and record book every year a lactating dairy cow project is taken. Learn how to care, manage, and keep records for one or more dairy cows. (80 pages). Use with 127R Dairy Resource Handbook. © 2003.

Source: Ohio State University

OSU CES 120 \$6.25

Dairy Heifer Project & Record Book

Complete this required project and record book every year a dairy heifer project is taken. Learn how to raise, care for, manage, and keep records for one or more dairy heifers. (80 pages). Use with 127R Dairy Resource Handbook. © 2001.

Source: Ohio State University

OSU CES 122 \$6.25

Dairy Resource Handbook

This resource handbook contains important information for members taking a dairy heifer or dairy cow project. Needs to be purchased only once and can be used for several years. This is an excellent resource for skill-a-thons. 2004. (203 pages). Intended user: youth and volunteers working with youth.

Source: Ohio State University

OSU CES 4-H 127R \$14.25

Cowabunga! (Dairy 1)

Youth explore dairy cattle breeds, select calves, identify parts of dairy cattle, recognize desirable traits, identify stages of calving and care, pack a show box, and groom and show a calf. (40 pages) Intended user: youth in grades 3-12 (beginning)

Source: National 4-H Supply Service
N4-HSS BU-08161 \$3.95

Mooving Ahead (Dairy 2)

Youth deepen their learning by focusing on housing, hay quality, milking, keeping animals healthy, parasites, behavior, and food safety. They explore ethical decision making, judging and careers. (40 pages)
Intended user: youth in grades 3-12 (intermediate)

Source: National 4-H Supply Service
N4-HSS BU-08162 \$3.95

Rising to the Top (Dairy 3)

Advanced youth practice mastitis detection, balancing a ration, pregnancy detection, delivery of calf, body condition scoring, selecting cattle through records, promoting dairy products and exploring career opportunities. (40 pages) Intended user: youth in grades 3-12 (advanced)

Source: National 4-H Supply Service
N4-HSS BU-08163 \$3.95

Dairy Cattle Group Helper's Guide

These activities will bring any meeting to life. Helpers guide youth as they play Dairy Bingo and participate in dairy quiz bowls, dairy pyramid game and a dairy skill-a-thon. (40 pages) Intended user: volunteers working with youth

Source: National 4-H Supply Service
N4-HSS BU-08164 \$3.95

Dairy Judging Resources:

Resources listed and located on the Kentucky 4-H Dairy Youth Website under Dairy Judging. The materials listed there are current: <http://www2.ca.uky.edu/afsdairy/extension/youth/dairyjudging>
Resources Materials (Click on the items below for information on how to judge dairy cattle)

- [Dairy Cattle Judging Handout](#)
- [PDCA Dairy Cow Unified Scorecard](#)
- [Holstein Foundation Dairy Judging Workbook](#)

Dog:

State Contact: Jann Burks

Wiggles and Wags (Dog 1)

Youth learn basic skills for dog care and training. Activities include learning breeds, selecting a dog, learning the parts of a dog, keeping a dog healthy and groomed, training and much more. (40 pages)
Intended user: youth in grades 3-12 (beginning)

Source: National 4-H Supply Service
N4-HSS 08166 \$3.95

Canine Connection (Dog 2)

Youth explore more about dog health, nutrition, care, genetic problems, population control, showmanship, training, ethics and budgeting. (40 pages) Intended user: youth in grades 3-12 (intermediate)

Source: National 4-H Supply Service
N4-HSS 08167 \$3.95

Leading the Pack (Dog 3)

Experienced youth investigate responsible breeding, diseases, caring for geriatric dogs, training, service

dogs, dog roles and careers related to dogs. This guide provides youth with numerous leadership opportunities. (40 pages) Intended user: youth in grades 3-12 (advanced)

Source: National 4-H Supply Service

N4-HSS 08168 \$3.95

Dog Group Helper's Guide

Group games and activities provide leaders with ideas to facilitate learning. Service learning opportunities are encouraged. Training activities and resources are highlighted. (40 pages) Intended user: volunteers working with youth

Source: National 4-H Supply Service

N4-HSS 08169 \$3.95

Goat:

State Contact: Steve Austin (also Kenneth Andries, Kentucky State University Extension Program)

Goat Project & Record Book

Complete this required project and record book every year a market, dairy, or specialty goat project is taken. Expanded quality assurance and animal records sections help you learn how to care for and manage your animal or herd. Use with 135R Goat Resource Handbook. © 2007. (57 pages) Intended user: youth ages 9-18

Source: Ohio State University Cooperative Extension

OSU CES 135 \$6.25

Goat Resource Handbook

This resource handbook contains essential information for members taking a goat project, starting with breeds, ending with careers, and including everything in between. Purchase only once. An excellent resource for skillathons. 2008. (184 pages). Intended user: Youth and adults of all ages

Source: Ohio Cooperative Extension

OSU CES 135R \$19.50

Horse:

State Contacts: Dr. Fernanda Camargo and Amy Lawyer

Horse Achievement Level 1

In level 1, youth keep a record of activities as they complete them--when they ride and work with horses, read a horse book, visit a horse farm, and begin practicing different horse management skills they need for the next levels to become a "Greenhorn". (12 pages) Intended user: youth--Beginning Rider 1

Source: KY Cooperative Extension, Ag Distribution Center; download at <http://www.ca.uky.edu/agc/pubs/4af/4af01po/4af01po.pdf> (Link)

KY CES 4AF-01PO Order at no charge or download*

Horse Achievement Level 2

In Level 2, youth keep a record of activities as they complete them--when they ride and work with horses, visit horse farms, read a horse book, and begin to practice several kinds of gaits when they ride to become a "Sodbuster". (12 pages) Intended user: youth--Beginning Rider 2

Source: KY Cooperative Extension, Ag Distribution Center; download at <http://www.ca.uky.edu/agc/pubs/4af/4af02po/4af02po.pdf> (Link)

KY CES 4AF-02PO Order at no charge or download*

Horse Achievement Level 3

In level 3, youth gain "hands on" experience of riding, caring for horses, and horse farm management. They keep detailed accounts of expenses to become a "Wrangler". (12 pages) Intended user: youth--

Intermediate Rider

Source: KY Cooperative Extension, Ag Distribution Center; download at: [PDF/Adobe Acrobat: 250 kb](#) (Link)
KY CES 4AF-03PO Order at no charge or download.

Horse Achievement Level 4

In level 4, youth continue to gain “hands on” experience in riding with other activities. They work with beginning members to become a “Master Horseman”. (12 pages) Intended user: youth--Advanced Rider.

Source: Kentucky Cooperative Extension Service, Ag Distribution Center; download at: [PDF/Adobe Acrobat: 266 kb](#) (Link)

KY CES 4AF-04PO Order at no charge or download.

Basic Horse Safety Manual

This manual provides basic safety information for all ages of youth working with horses from the ground to the saddle. (16 pages) Intended user: youth of all ages

Source: KY Cooperative Extension, Ag Distribution Center; Download at <http://www.ca.uky.edu/agc/pubs/4af/4af05ma/4af05ma.htm> (Link)

KY CES 4AF-05MA Order at no charge or download

Horticulture:

To be determined at a later date

Livestock (General):

State Contact: Steve Austin

KY Livestock Volunteer Certification Resource Manuals

A manual has been developed for each of the following species: beef, sheep, swine, dairy cattle and goats. Each manual contains a series of lesson plans and learning activities for club leaders to use when teaching animal science to 4-H members. Intended user: volunteers working with youth

Source: Kentucky Cooperative Extension Service. This resource is distributed only during the KY Livestock Volunteer Certification Workshop.

KY Livestock Volunteer Certification Resource Kit

Visuals help youth understand concepts. This kit is made up of a variety of teaching tools—laminated posters of external parts, skeletal anatomy, wholesale cuts of meat, breeds, meats, ear notching, foot/leg structure, resource manuals, six quality assurance videos, and a variety of other educational activities.

Intended user: volunteers working with youth

Source: Kentucky Cooperative Extension Service. This resource is distributed only during the KY Livestock Volunteer Certification Workshop. \$800.00

Livestock Discovery CD

This CD is a collection of the most current information available in the world of beef, sheep, swine, dairy, goats, and horses. It’s great for youth preparing for judging and skill-a-thons. It includes information on breeds, external parts, skeletal anatomy, structural correctness, meats, feeds, etc. Intended user: youth and volunteers working with youth

Source: Kentucky Cooperative Extension Service, through Dr. Richard Coffey, rcoffey@uky.edu. Make check payable to Friends of KY 4-H, Inc. and mail to Richard Coffey, Research and Education Center, PO Box 469, Princeton, KY 42445-0469

KY CES CD \$3.00

Beef, Sheep, Swine Selection Evaluation

This optional resource is for beginners who want to learn more about selecting and evaluating livestock.

Purchase only once and refer to it when selecting projects or before attending a judging contest. 1995.
Order it only once and refer to it when selecting projects or before participating in a judging contest. (73 pages) Intended user: older youth ages 13-18
Source: Ohio State University
OSU CES 103R \$10.75

Meats & Livestock Materials & Handouts CD

This CD is a collection of the most current information available in meat sciences and also contains handout materials from a variety of lessons and workshops. It contains a variety of powerpoint presentations and word documents, including many handouts and resources. Intended user: youth and volunteers working with youth

Source: Kentucky Cooperative Extension Service, through Bob O'Brien, robrien@email.uky.edu . Make check payable to Friends of KY 4-H, Inc. and mail to Bob O'Brien, 212 Scovell Hall, Lexington, KY 40546-0064

KY 4-H CD \$3.00

Meats:

State Contact: Dr. Gregg Rentfrow

Meats & Livestock Materials & Handouts CD

This CD is a collection of the most current information available in meat sciences and also contains handout materials from a variety of lessons and workshops. It contains a variety of powerpoint presentations and word documents, including many handouts and resources. Intended user: youth and volunteers working with youth

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KY 4-H CD \$3.00

Plant Science/ Crops:

Poultry:

State Contact: Dr. Tony Pescatore and Dr. Jacquie Jacob

Egg Preparation Demonstration (approved for NEP grant)

This factsheet explains how to prepare to give an egg demonstration. The demonstration score sheet is included. (7 pages) Intended user: youth ages 9-18 and the adults who work with them.

Source: Kentucky Cooperative Extension: download
at: <http://www2.ca.uky.edu/agc/pubs/4aj/4aj09po/4aj09po.PDF>

KCES 4AJ-09PO download & print

Kentucky 4-H Chicken and Turkey Barbecue Project (approved for NEP grant)

This project explains how to barbecue chicken and turkey—everything from safely cutting up the bird to preparing the fire to being able to tell when the meat is done. (11 pages) Intended user: youth ages 9-18 and the adults who work with them.

Source: Kentucky Cooperative Extension: download
at: <http://www2.ca.uky.edu/agc/pubs/4aj/4aj02po/4aj02po.PDF>

KCES 4AJ-02PO download & print

Kentucky 4-H Poultry: Barbecue Contests (approved for NEP grant)

This factsheet describes the poultry barbecue contests and lists the rules and regulations of competition. Score sheets for chicken and turkey are included. (8 pages) Intended user: youth ages 9-18 and the adults

who work with them.

Source: Kentucky Cooperative Extension: download
at: <http://www2.ca.uky.edu/agc/pubs/4aj/4aj03po/4aj03po.PDF>
KCES 4AJ-03PO download & print

National Avian Bowl Manual

The manual includes just about everything a young person would need to know to participate in an avian bowl. (193 pages) Intended user: youth preparing for avian bowl
Source: Clemson University. Purchasing information is available
at <http://www.ca.uky.edu/national4hpoultry/AvianBowl.html>
Clemson Man 161 \$15.00

ChickQuest: A classroom journey through the life cycle of chickens

ChickQuest is a series of standards-based supporting activities written for classroom teachers and group leaders who facilitate a variety of 21st century learning environments. Lessons are arranged using the experiential learning model. The Logbook provides an embedded evaluation tool. (68 pages) Intended user: volunteer leader
Source: Ohio State University; to order ([Link](#))
OSU 167GPM \$32 each

ChickQuest: Logbook-Individual

This 21-day classroom adventure starts with eggs and ends with chicks. Students are the scientists that help make it happen! This personal ChickQuest Logbook is used to record data and observations. Sold individually or in classroom sets of 25 with one full-color, write-on poster of 21-day chick embryo development. For use with 167GPM ChickQuest: The Scientific Journey through a Life Cycle Intended user: youth
Source: Ohio State University; to order single copy ([Link](#)) or 25 ([Link](#))
OSU 167RI \$7.50 each or \$50.00 for 25

Hatching with my 'peeps' embryology countdown calendar

Hatching with My "Peeps" is designed for all classrooms taking part in 4-H Embryology projects. This colorful wall calendar provides a daily guide for teachers and students to successfully incubate chicken eggs and follow the progress of their development from embryos to hatchlings. Each page represents a day in the development of the embryo, and includes photos and descriptions of the development stage, a "chick" list for daily maintenance and observation, vocabulary words and fun learning activities. The 11" x 17" calendar is coil-bound and vinyl coated, so you can write on it in dry-erase marker, wipe it off and use it again in class after class. Intended user: Instructor working with a group of youth
Source: University of Florida; order at: ([link](#))
IFAS SP POL 20 \$30

4-H Poultry Production: Raising Broilers (project and record book)

Have fun raising baby chicks for broilers and your family will enjoy the nutritious, delicious product. Complete your records in the back of this project book to monitor your management decisions. Beginning level project recommended for members 9-11 years of age. Older members with no experience or with some knowledge of poultry also should begin at this project level. (36 pages) Intended user: youth ages 9-11 and older youth with no experience.
Source: Ohio State University; to order ([link](#))
OSU 152 \$6.25

4-H Poultry Production: Raising Pullets (project and record book)

Become a poultry producer and manager through the experience of feeding, watering, and caring for chickens for home use or market. Complete your records in the back of this project book to monitor your

production decisions. (44 pages) Intended user: youth ages 9-11 and older youth with no experience. Designed for multi-year experience.

Source: Ohio State University, to order ([link](#))

OSU 151 \$6.25

Raising Fancy Poultry (project and record book)

Discover the many different types of poultry from all around the world to gain an appreciation for these colorful birds. Then, construct a pen, plan a budget, and raise your own fancy poultry. Complete your records in the back of the project book to monitor your management decisions. (24 pages) Intended user: 4-H members ages 9 and older.

Source: Ohio State University, to order ([link](#))

OSU 153 \$6.25

Duck or Goose Project and Record Book

Discover the breeds, markets, and duck and geese industries while managing your flock to a healthy profit. The project book is designed for a multi-year experience with beginning, intermediate and advanced project activities. (36 pages) Intended user: youth

Source: Ohio State University, to order ([link](#))

OSU 168 \$6.25

Raising Turkeys Project and Record Book

Buy, brood, and raise a healthy turkey flock with proper equipment and responsible care. Complete your records in the back of this project book to monitor your management decisions. Includes beginning, intermediate and advanced project activities. (56 pages) Intended user: youth

Source: Ohio State University, to order ([link](#))

OSU 166 \$6.25

Rabbit:

State Contact: Mark Mains

What's Hoppening?

Youth learn selection, handling, breeds, parts, management, equipment, feeding, health, breeding, and kindling. (40 pages) Intended user: youth in grades 3-5 (beginning)

Source: National 4-H Supply Service

N4-HSS 08080 \$4.95

Making Tracks

Through activities, youth learn to select a rabbit, detect diseases, tattoo their rabbit, keep records, show rabbits, and judge rabbits, including giving oral reasons. (40 pages) Intended user: youth in grades 6-8 (intermediate)

Source: National 4-H Supply Service

N4-HSS 08081 \$4.95

All Ears

Advanced youth fully explore rabbit management practices through breeding, genetics, culling, designing a rabbitry, marketing rabbits, preventing diseases and registering a rabbit. (40 pages) Intended user: youth in grades 9-12 (advanced)

Source: National 4-H Supply Service

N4-HSS 08082 \$4.95

Rabbit Group Helper's Guide

Fifteen exciting rabbit group activities make group learning fun and educational. (40 pages) Intended

user: volunteers working with youth
Source: National 4-H Supply Service
N4-HSS 08083 \$4.95

Rabbit Learning Lab Kit

The Rabbit Learning Lab Kit from Ohio State University includes materials and suggestions for activities that cover rabbit anatomy, awareness, care and management, health and quality assurance, conformation, breeds, identification, genetics and reproduction, selection and evaluation.

Source: The Ohio State University: (<http://www.ohio4h.org/learning-lab-kits/rabbit>)

OSU Rabbit Learning Lab Kit \$629.00

Sheep:

State Contact: Steve Austin

Sheep Resource Handbook

This handbook contains essential subject matter information for members taking a market lamb or sheep breeding project. This is an excellent resource for skill-a-thons. Order only once and use for several years. (168 pages) Intended user: youth in grades 3-12

Source: Ohio State University Cooperative Extension

OSU CES 194R \$27.50

Market Lamb Project and Record Book

Members complete this project book every year a market lamb project is taken. Use in conjunction with the 194R Sheep Resource Handbook to monitor management decisions. (48 pages) Intended user: youth in grades 3-12

Source: Ohio State University Cooperative Extension

OSU CES 198 \$6.25

Pilot Sheep Breeding Project and Record Book

Members complete this project book every year a sheep breeding project is taken. Use in conjunction with the 194R Sheep Resource Handbook to monitor production practices. (47 pages) Intended user: youth in grades 3-12

Source: Ohio State University Cooperative Extension

OSU CES 199 \$6.25

Beef, Sheep, Swine Selection Evaluation

This resource is for beginners who want to learn more about selecting and evaluating livestock. Order it only once and refer to it when selecting projects or before participating in a judging contest. (74 pages) Intended user: youth in grades 3-12

Source: Ohio State University Cooperative Extension

OSU CES 103R \$10.75

Swine:

State Contact: Steve Austin

Swine Resource Handbook for Market and Breeding Projects

This handbook is a one-stop source of essential subject matter information for members taking a market hog or swine breeding project. Order only once and use for several years. This is an excellent resource for skill-a-thons. (216 pages) Intended user: youth in grades 3-12

Source: Ohio State University Cooperative Extension

OSU CES 134R \$19.50

Market Hog Project and Record Book

Members complete this project book every year a market hog project is taken. Use in conjunction with the 134R Swine Resource Handbook to monitor management decisions. (48 pages) Intended user: youth in grades 3-12

Source: Ohio State University Cooperative Extension

OSU CES 139 \$6.25

Swine Breeding Project and Record Book

Members complete this project book every year a swine breeding project is taken. Use in conjunction with the 134R Swine Resource Handbook to monitor production practices. (47 pages) Intended user: youth in grades 3-12

Source: Ohio State University Cooperative Extension

OSU CES 140 \$6.25

Beef, Sheep, Swine Selection Evaluation

This optional resource is for beginners who want to learn more about selecting and evaluating livestock. Order it only once and refer to it when selecting projects or before participating in a judging contest. (73 pages) Intended user: youth in grades 3-12

Source: Ohio State University Cooperative Extension

OSU CES 103R \$10.75

Contact:

Dr. Ken Culp, III --- Extension Specialist for 4-H Youth Development