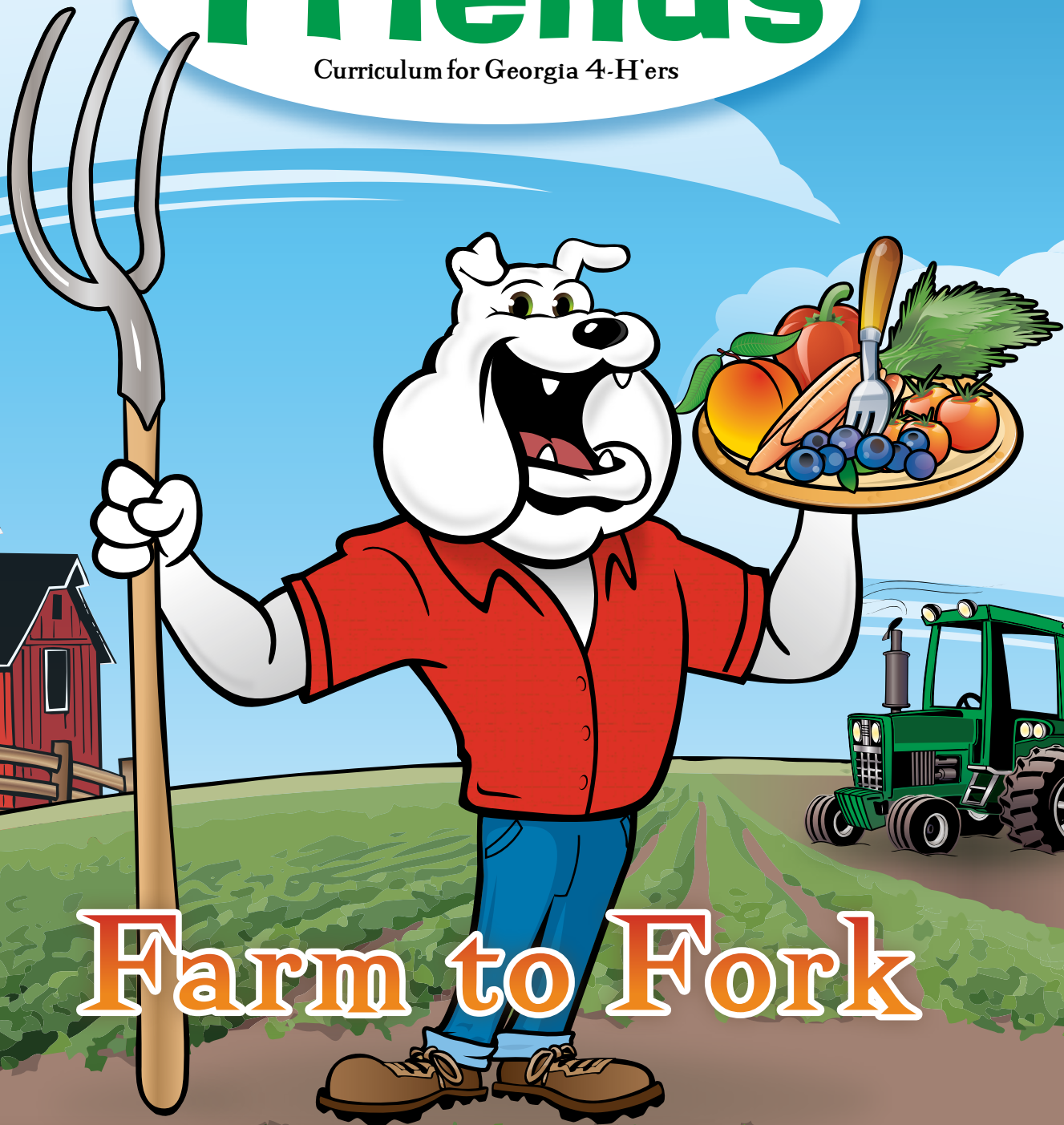




Friends

Curriculum for Georgia 4-H'ers



Farm to Fork

Name _____

Grade _____ Teacher _____

School _____



UNIVERSITY OF GEORGIA
EXTENSION





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Can You Define Agriculture?

Here's a simple definition: The science or practice of farming, including cultivating the soil, producing crops, raising livestock and in varying degrees, the preparation and marketing of the resulting products. Georgia's Agriculture and Georgia 4-H have been "Friends" for more than one hundred years. In fact, the first 4-H members in Georgia were kids learning how to increase corn yields on their family farms. Georgia 4-H and Cooperative Extension at the University of Georgia have used the research of the College of Agricultural and Environmental Sciences to improve agricultural production practices of Georgia farmers. As a result of this research-based education, our nation's farmers are producing food and fiber for much of the world.

Agriculture is the United States largest industry, but consider this interesting fact: Less than two out of every 100 people in the US are involved in farming. Knowing this, join me, Arch the Dawg, as we explore the many careers that are involved from Farm to Fork!

Georgia 4-H is a partner in public education and strives to incorporate state curricula standards and studies in career awareness in the educational materials produced for in-school use.

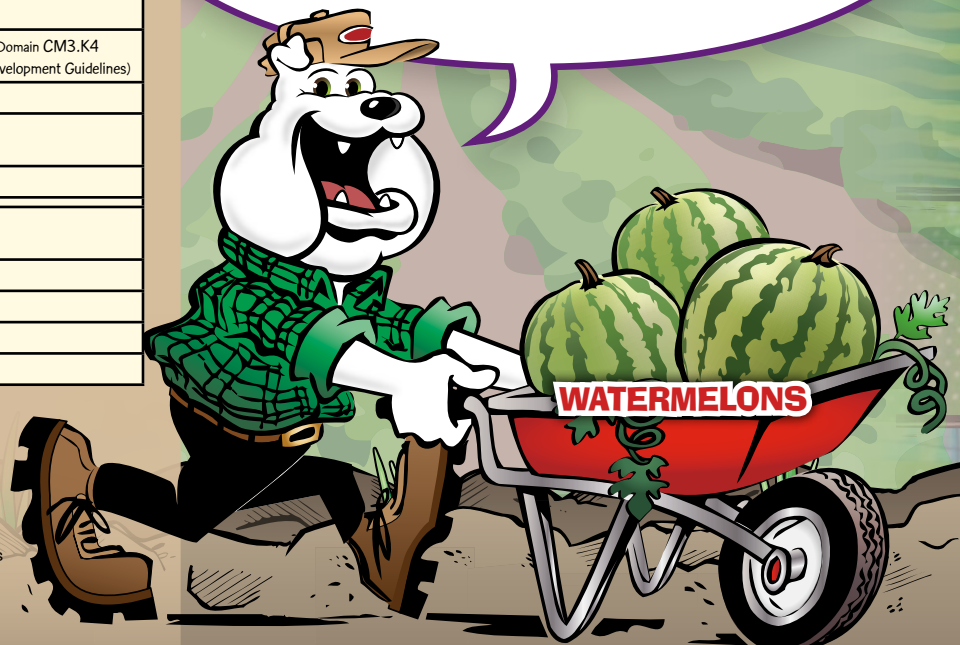
Career Cluster/Guidance 4th GRADE	Standard
STEM	Career Management Domain CM3.K4 (National Career Development Guidelines)
Manufacturing	CM3.K4 (NCDG)
Business Management & Administration	CM3.K4 (NCDG)
Architecture & Construction	CM3.K4 (NCDG)
Career Cluster/Guidance 5th GRADE	Standard
Finance	CM3.K4
Information Technology	CM3.K4
Marketing	CM3.K4
Government & Public Admin.	CM3.K4

National Career Development Framework: ncaa.org



Think Green!

Not just 4-H Green...but let's help do our part to recycle and reuse. Save this book, reread it or pass it along to a friend. If it's too worn, please recycle it.





THE TAPESTRY OF GEORGIA'S FARMLAND

Georgia's farmland is like a patchwork quilt across our state.

Have you ever seen a quilt? A quilt has many individual squares that have their own design and pattern. When sewn together, the squares form a large and colorful covering. Many people think of quilts as a treasure because of the time and effort invested in constructing them. Quilts are often handed down as family heirlooms, and *we can think of Georgia's farmland much the same way*. Many family farms have been handed down from generation to generation, giving us a rich history of farming in our state. In fact, 87% of Georgia's farms are family owned!

Georgia has many different types of farms, and the differences we find in growing seasons, soil, and climate make our ability to produce agricultural products very diverse. Let's take a look at the tapestry of Georgia's Agricultural Farmland and see some commodities from Georgia farms.

**The impact of Agriculture
on Georgia's economy is
\$69.4 Billion a year!**



POULTRY

**Broilers
(chickens) are
Georgia's top
commodity**



COTTON



EQUINE



CORN



EGGS

**Georgia
flocks
produce 600
million eggs
per year!**

**Georgia has
ranked No. 1
in pecan
production
nationwide for
decades.**



PECANS



PEACHES



DAIRY/BEEF

**Georgia is home
to 81,000 dairy
cows. Each
cow provides
an average of
2,544 gallons
of milk.**



GREEN INDUSTRY



VIDALIA ONIONS



SWINE



PEANUTS

**Peanuts are the official
state crop. Georgia
is the number one
producer of peanuts
in the United States
and Georgia farmers
provide almost half the
nation's peanuts!**



BLUEBERRIES

**Blueberries
contributed a
value of \$304.2
million to the
total agricultural
impact on the
economy.**



CULTIVATING 4-H KNOWLEDGE

Georgia 4-H has a core program called 4-H Project Achievement. In 4-H Project Achievement you explore a topic of interest, develop a speech and poster and present your information in a public forum. We have many projects that connect to Agriculture. Take a look at 4-H Project Achievement here: georgia4h.org/projectachievement



WHERE IS GEORGIA'S AGRICULTURE?

As we have already discovered, the economic impact of Agriculture in Georgia's is \$69.4 billion each year. Because our state is so large, Agriculture looks different in each of the 5 growing regions in Georgia. Georgia farmers (we can also call them producers) grow all types of crops, including **cotton, peanuts, watermelon, blueberries, pecans, apples, peaches, Vidalia onions, peppers** and much more! They also raise **beef cattle, bees, dairy cattle, horses, poultry, sheep, goats, and swine**. Some farmers even grow fields of trees, and we call this commodity **timber**.

Georgia Grown is a program from the Georgia Department of Agriculture that helps producers, processors, suppliers and consumers as they grow, process and sell agricultural products that are grown in Georgia. You can find out more information at georgiagrown.com



Arch the Dawg is ready to map agriculture in our state... let's journey together to discover what grows where!

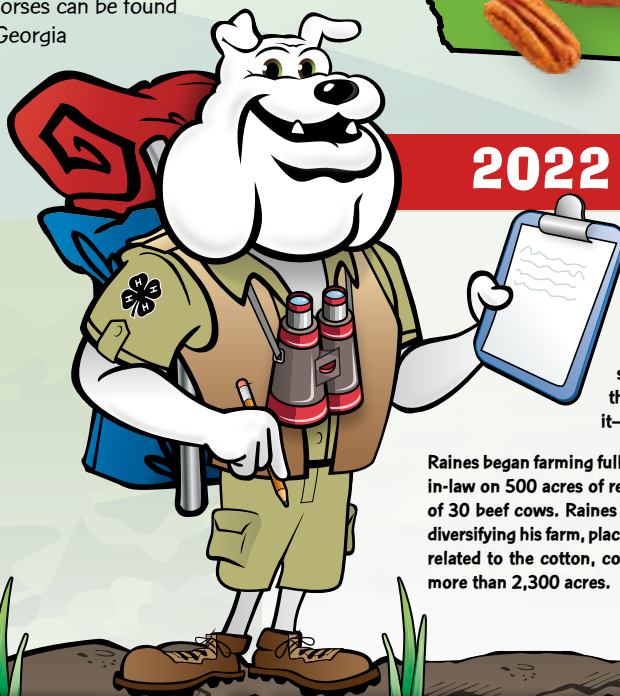
Key Terms

- A **commodity** is another word we can use to describe agricultural products like cotton, peanuts and poultry.
- Poultry producers raise birds, like chickens and turkeys, for their eggs or meat. **Broilers** are chickens raised for meat and they are Georgia's number one agricultural product.
- Some farmers in Georgia produce **timber**, which are trees grown to produce wood for building, carpentry and paper products.

Did You Know?

- Georgia supplies nearly one-half of the nation's peanuts.
- Poultry, beef and dairy cattle, and horses can be found in all five physiographic regions of Georgia
- Cordele, GA is known as the Watermelon Capital of the World because of the quality and quantity of their watermelons. Who doesn't love to eat a tasty watermelon on a hot summer day?
- Georgia's top 5 **Vegetable** Commodities are:

1. Sweet Corn
2. Watermelon
3. Onions
4. Bell Peppers
5. Cucumbers



2022 Georgia Farm

Scotty Raines – For Scotty Raines, the best part of farming is witnessing the seeds he plants crack through the ground, bursting with life. "I don't know of any other job where you can take something lifeless, place it in the dirt and then a few months later harvest a crop from it—it's nothing short of amazing," Raines said.

Raines began farming full time in 1993, collaborating with his father-in-law on 500 acres of rented land and establishing a personal herd of 30 beef cows. Raines has spent the last 28 years expanding and diversifying his farm, placing special emphasis on marketing strategies related to the cotton, corn, peanuts and watermelons he grows on more than 2,300 acres.

CULTIVATING 4-H KNOWLEDGE

Georgia 4-H has many opportunities for you to participate in that have a direct tie to Agriculture. Here are Horse Quiz Bowl, Forestry Judging, Livestock Judging, Poultry Judging, Land Judging, Hippology Contests call these 4-H'ers Youth Exhibitors. To learn more about judging events go to georgia4h.org



KNOW YOUR REGION

The State of Georgia extends from the Atlantic Ocean into the Blue Ridge Mountains. The State is divided into five regions based upon physical geography. These regions are called Physiographic Provinces. The five physiographic provinces of Georgia are the **Coastal Plain**, the **Piedmont Region**, the **Blue Ridge Region**, the **Ridge and Valley Region**, and the **Appalachian Plateau**. Vegetation varies among these provinces and within them. You can find out more about these regions on the New Georgia Encyclopedia website: georgiaencyclopedia.org

Let's learn more about where Georgia's Agriculture can be found among the regions

The **Appalachian Plateau** is the smallest region and is found in Georgia's northwest corner. Farmers in this region produce beef and poultry and small grains (like wheat). Wheat is harvested for grain and then baled for straw.

Farmers in the **Ridge & Valley** Region produce commodities like corn and soybeans and also grow and produce food for dairy cattle, beef cattle, and horses. We call this food hay and **forage** (bulky food such as grass). **Silage**, (grass that is compacted and stored in silos), is another commodity grown to support dairies in the region.

In the **Blue Ridge** region of Georgia you'll find apples, peaches and grapes. You will also find vegetables to support the many local farmers markets (multi-stall market at which farmers or producers sell agricultural products directly to the general public) throughout the region.

The **Piedmont** Region is one of the largest regions in Georgia and is in the northern part of the state. Agriculture in this region includes many commodities like beef, poultry, eggs, ornamental horticulture and dairy.

The **Upper Coastal Plain** and **Lower Coastal Plain** are home to the state's vegetable and fruit producing regions. Farmers in the Coastal Plain produce a wide variety of crops like cotton, peanuts, timber, watermelons, blueberries, peaches, peppers, pecans, soybeans, and Vidalia onions.

Test your Agricultural and Geographic knowledge!







Can you define the word **Commodity** in your own words?

List a few commodities that you have learned about that grow in your physiographic region:

• _____ • _____ • _____ • _____

Share one interesting fact about Georgia's Agriculture that you have learned:

GEORGIA PHYSIOGRAPHIC MAP

-  APPALACHIAN PLATEAU
-  RIDGE and VALLEY
-  BLUE RIDGE
-  PIEDMONT
-  UPPER COASTAL PLAIN
-  LOWER COASTAL PLAIN



Farmer of the Year



Photo by Sunbelt Expo

<https://sunbeltexpo.com/scotty-raines-georgia-farmer-of-the-year-2022/>

...e some to consider: Cotton Boll & Consumer Judging, Dairy Judging, Dairy Quiz Bowl, Horse Judging, ...
...t (this is not a contest about Hippos!) and Wildlife Judging. We also have youth who show livestock, we



OPPORTUNITIES IN SCIENCE

It takes many **STEM** (science, technology, engineering, and math) careers to get food from the farm to your family. In fact, one in every seven Georgians works in agriculture, forestry, or a related field. Take a closer look at what it takes to have a career in agriculture by selecting an agricultural-related career, conducting your own research, and completing the "Wanted Poster" below.

Places to visit for research help: gaaged.org/Careers_in_Agriculture and agcareers.com/career-profiles.

Choose one of these careers to explore – OR – explore your own area of interest!

- Agronomist
- Beef Producer
- Breeding Manager
- Climatologist
- County Extension Agent
- Economist
- Entomologist
- Food Product Developer
- Food Safety Inspector
- Geneticist
- Geographic Information Systems (GIS) Specialist
- Horticultural Scientist
- Plant Pathologist
- School Nutrition Director
- Scientific Illustrator
- Soil Conservationist
- Soil Scientist
- Teacher/Educator
- Turfgrass Farm Operator
- Vegetable Farmer
- Waste Management Specialist

WANTED

CAREER: _____

SKETCH A PICTURE OF THIS CAREER IN ACTION

AKA (Also Known As) – Describe in your own words what the responsibilities of this job include.

WORK ENVIRONMENT: Describe in your own words where this professional might work and what the work conditions might be like.

PARTNERSHIPS AND NETWORKS: Describe some of the types of people and organizations that might work with someone in this career. Who are some people that benefit from the work? From who will this person need additional help?

IMPORTANT CHARACTERISTICS/SKILLS: What types of skills and characteristics will make someone successful at this job?

SALARY: What might you expect someone in this job to earn?

CULTIVATING 4-H KNOWLEDGE

Georgia 4-H has several contests related to Agriculture that you can enter. Those contests are: Egg Preparation, Chicken Barbecue, Georgia 4-H, Georgia Peanuts Powering the Perfect Recipe, Food Product Development, Pantry Pride, and MilkMake. We also have Pumpkin growing, Watermelon growing and Water Wise Scholarship contests.



MEET THE EXPERTS

SPOTLIGHT ON CAREERS

A **Career** is defined as an occupation undertaken for a significant period of a person's life with opportunities for progress. Your teachers and parents are charged with the task of helping you to begin to think about career choices based on your strengths and interest. As educators we are

charged with helping you to be College and Career ready so that you have the skills and knowledge necessary to qualify for schooling or job training after high school. An ideal way to explore career choices is to get to know what types of careers exist. Let's take a look at some careers that you can find from the Farm to the Fork... it begins with a farmer, but there are lots of people who contribute to the agricultural industry in our state.

Child Nutrition Programs Director

– **Michele Chivore** Michele Chivore serves as the Atlanta Community Food Bank's Director of Child Nutrition Programs where her role is to develop the strategy around and implementation of the Atlanta Community Food Bank's programs aimed at reducing child hunger. This includes **outreach programs** to increase capacity and participation in federally funded child nutrition programs while strategically exploring new opportunities to reduce the prevalence of childhood hunger across the Food Bank's service area.



Registered Dietitian Nutritionist (RDN)

– **Alison (Ali) Berg** is an Assistant Professor and serves as the **Extension** (an outreach unit of UGA) Nutrition and Health Specialist. She coordinates programs at the University that teach people about the prevention and control of **chronic diseases** (long lasting condition that can be controlled but not cured) and does research on the effectiveness of these programs (how well they work). Dietetics is a rewarding career with opportunities to do many different things in many places.



Citrus Grower – **Lindy Savelle**, a retired federal law enforcement agent has a new career as a citrus grower. She and her husband Perry, returned to Georgia with a goal of finding a way to give back to their communities through the development of an alternative niche, yet **sustainable agricultural commodities** (crops raised to provide food). Lindy and Perry planted a commercial citrus grove in Thomas County

and a test plot in Mitchell County. They now sell fresh farm, Georgia Grown citrus. Lindy and Perry started Georgia Grown Citrus LLC, (GGC), a commercial tree nursery hub partnering with four other commercial nurseries which propagate citrus trees for sale to commercial growers and homeowners.

Engineer – **Michael Reeves** is the owner of the **civil engineering** (engineering discipline that deals with the design, construction and maintenance of the natural environment) firm Reeves Design Services, LLC. His firm specializes in helping private and government clients with civil engineering projects such as wastewater treatment systems, sizing storm sewer systems, water distribution systems, roadway designs and site layouts for residential, commercial and industrial developments. Growing up on a farm provided him experience in problem solving and having to think of alternate methods to repair or resolve an issue.



FUTURE EXPERTS

Rachel Hayes

How did you become interested in showing livestock in Georgia 4-H?

What started out as a family tradition has become my passion, my parents have always understood the sense of community, long-term benefits, and skills gained from showing livestock. When I was in kindergarten, my older brother and I began showing pigs through Georgia 4-H. After several years as a hog exhibitor, my brother began showing lambs and I spent time observing the differences between the lamb barn and the pig barn. I fell in love with sheep and knew that showing lambs was something I wanted to do. Showing livestock is a tradition that I plan to carry on.



What are your plans after high school? And how has your 4-H experience equipped you to follow your dreams and pursue your future plans?

After high school, I plan to attend an agricultural based college and participate on a collegiate livestock judging team while I pursue a dual major in animal science and agricultural communications. I hope to attend dental school and specialize in pediatrics. My 4-H experiences have taught me responsibility, resilience, compassion, and the importance of giving to others. 4-H has also increased my communication and leadership skills, helping me be a better student and helped me learn the benefits of a humble heart.

Lexi Pritchard

How did you become interested in showing livestock in Georgia 4-H?

My community members were a huge part of the start to my livestock career. I have always been involved with agriculture and animals through my family, but it was my time competing on 4-H Quiz Bowl Teams that got me interested in showing livestock. My 4-H Extension Agent was able to connect me with community members who made everything possible. I started showing beef cattle and lambs my seventh grade year and the rest was history. Exhibiting livestock has truly made me into the person I am today and I have 4-H to thank.



What are your plans after high school? And how has your 4-H experience equipped you to follow your dreams and pursue your future plans?

In the seventh grade, I competed for the first time in the Poultry Judging Competition with Oconee County 4-H and the next year I filled a spot on the middle school FFA team. Last spring our Oconee County team won state Poultry Judging and I won High Individual. This earned us a trip to nationals where I won High Individual in the national competition and received recognition by the Poultry Science Association. This coming August, I will attend the University of Georgia, pursuing a degree in Poultry Science. Through my many years of being involved in the cattle industry and competing in the Beef Project, I never imagined I would be so interested in chickens. Georgia 4-H allowed me to explore options I had never thought of and helped me find my spark.

<https://www.farm-monitor.com/video/?show=VBXhOBNSgqo>



Write down what you ate and drank today. Now circle the foods you can identify that came from a farm.

Health is part of the 4-H pledge and has been an important focus of 4-H for more than 100 years. As you charted your food today and traced it to the farm where it was grown, we want to remind you that healthy habits are important at every age. Everyone needs a food plan based on the My Plate Guidelines. To learn more about healthy food choices, visit choosemyplate.gov/kids

Take a look at your school's breakfast and lunch menu. The School Breakfast Program and the National School Lunch program can help you to understand how farmers, growers, food processors, distributors, school nutrition directors and the United States Department of Agriculture work collaboratively to supply food to schools.

Take time to thank a farmer, a producer, a cafeteria manager or school food service worker for the delicious meal you had today. If you brought your lunch from home, ask your parents where they got the food. Pay close attention to the fruits and vegetables you ate since many grocery stores are marketing locally grown produce in support of our Georgia farmers.

To learn more about the Farm to School Food movement go to: fns.usda.gov/farmentoschool/farm-school



Part

Date _____

Georgia Grown—A Guide to Georgia's Farms, Forests, Food and Exports. Georgia Department of Agriculture. (2012-2013; 2013-2014)

ncda.org; extension.uga.edu/Agriculture; caes.uga.edu/Departments; fcs.uga.edu; New Georgia Encyclopedia: georgiencyclopedia.org; dictionary.reference.com;
youtube.com/watch?v=iy8OLpQsg7Y; Scotty Raines Named 2022 Georgia Farmer of the Year newswire.caes.uga.edu/story/8860/2022-georgia-farmer-of-the-year.html;
youtube.com/watch?v=XZw1SK2U_fg&t=10s

Contributing Writers and Editors: **Michele Chivore**, Georgia Food Bank Association Campaign Director; **Connie Crawley**, UGA State Extension Faculty-Food, Nutrition and Health; **Michael Reeves**, Reeves Design Services, LLC; **Jenna Saxon**, Georgia Department of Agriculture Deputy Director for Communications; **Bobby Smith**, UGA Extension Agricultural and Natural Resources District Coordinator/Faculty; **Amanda B. Stephens**, UGA CAES Associate Director of Student Engagement; **Michael Wheeler**, UGA County Extension Faculty; **Kent Wolfe**, Director, UGA Center for Agribusiness and Economic Development

Special Thanks for Contributions on the Publication: **Tammy Cheely**, UGA County Extension Faculty; **Sonya Fears**, UGA Georgia 4-H Administrative Assistant; **Brent Marable**, Plant Licensing Manager, UGA Technology Commercialization Office; **Jennifer T. Miller**, UGA County Extension Faculty; **Krispin Peavy**, UGA County Extension Faculty; **Lucy Ray**, UGA County Extension Faculty; **Tamie Ruark**, Ruark Farms; **Heather Shultz**, UGA 4-H State Extension Faculty; **Raymond Joyce**, UGA County Extension Faculty

Reviewers: **Jennifer Grogan**, UGA County Extension Faculty; **Cindy Meadows**, UGA County Extension Faculty; **Kevin Tatum**, UGA County Extension Faculty; **Patrick Willis**, UGA County Extension Faculty

Design and Layout by: **Sam Pittard**, UGA Printing *Editing by:* **Tim Welsh**, Bulldog Print + Design

Laura Perry Johnson, Associate Dean for Extension | **Melanie Biersmith**, State 4-H Leader/Director of 4-H
Nick Place, Dean and Director, College of Agricultural and Environmental Sciences

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