

UNIVERSITY OF  
MARYLAND  
EXTENSION



# MARYLAND 4-H YOUTH DEVELOPMENT



You belong in 4-H



2022 ANNUAL REPORT 78,829 4-H youth and educational contacts

# MARYLAND 4-H PARTICIPATION & OUTCOMES

Together, we are growing thriving Maryland communities.



## 4-H Grows Maryland Youth

5,632 Youth in Clubs

- + 20,311 4-H Youth in Camping, In-School, Afterschool, Military & Outreach Programs
- + 52,886 Contacts through 4-H Educator programs

= **78,829** Youth & educational contacts through 4-H

- + 1,618 EFNEP
- + 15,769 SNAP ED

= **96,216** Youth & educational contacts through UME

\* 3,722 contacts through UMES 4-H Educators A joint partnership between UMCP and UMES.

## Maryland 4-H Priorities:

- Building Community & Civic Engagement
- Developing Leadership Skills for Life
- Nurturing Social Empowerment & Resilience
- Improving College & Workforce Readiness
- Fostering Exploration & Creativity in Arts & Sciences
- Promoting Healthy Lifestyles & Self-Acceptance

## Maryland 4-H Foundation

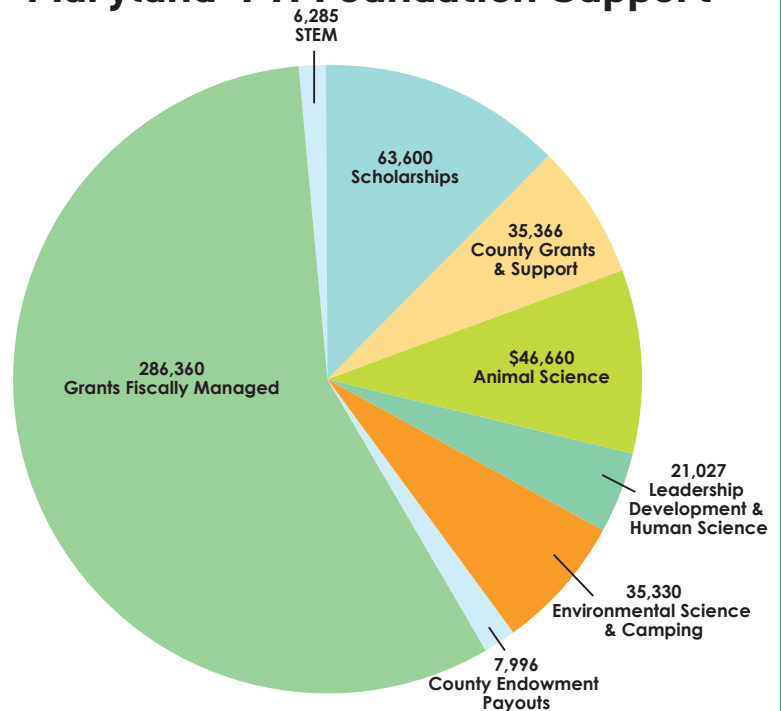


“4-H and all of the wonderful people who support this program have blessed me enormously. I am so grateful and fortunate to have had this experience and hope to continue cultivating 4-H’s legacy of growth.”

– Lindsey Larkin  
4-H Alumna

Business Service Specialist, Holly Finneran and Coordinator, Lauren Mohler for the Maryland 4-H Foundation

## Maryland 4-H Foundation Support



**\$ 502,625.00** Total Program Support

\*\* These numbers are based on the Fiscal Year ending June 30, 2022.\*\*

# 4-H VOLUNTEERS



“I want to create a valuable and memorable learning experience for my children and other children in the community, like I had growing up.”  
– Frederick County 4-H Volunteer

In the above photo (L-R) Dr. Nia Imani Fields, 4-H Program Leader, Patrick, Maryland 4-H State Council (M4-HSC) Member, Kendra Wells, National 4-H Hall of Fame inductee, Marissa (M4-HSC), Noah (M4-HSC), Blair Hill, Maryland 4-H Foundation President and Dean Beyrouy, College of AGNR was taken at the Celebrating Volunteers event.



Volunteers spend countless hours with youth in our robotics programs, offering guidance, support, and practical experience.



The “voice” of the Maryland 4-H Horse shows, Mr. Bob Shirley, and Ms. Elaine Bailey, lend their knowledge and skills in the horse industry.

## 4-H Volunteers

In 2022, **2,005** Certified UME 4-H Volunteers served on average 49 hours a year. This was an **8% increase** in the number of volunteers serving the 4-H Program from 2021 to 2022. There were **355 new volunteers in 2022**. This equates to approximately **98,000 hours of service**

to the 4-H Program, which is a **50% increase from 2021**. This service is a **\$3.2 M contribution** to the Maryland 4-H Program when multiplied by the \$36.38/hour Independent Sector volunteer rate.

**VOLUNTEERS**  
**2,005**

# MARYLAND 4-H YOUTH THRIVE

## Nurturing Healthy Relationships



Outdoor activities with hands-on experiences allow youth to experience farming techniques.

## Providing Quality Experiences



UMES 4-H hosted a STEM Festival where youth experienced free hands-on science activities.

## Maryland 4-H Program Highlights

4-H Animal Science projects teach youth and adults best animal husbandry management practices and develops leadership skills for life.

AGRI SCIENCE  
6,624

- Youth enrolled in **6,618** animal science projects in 2022, a **4% increase** from 2021.
- Maryland 4-H hosted **19 state animal science workshops and competitive events** where youth learn and/or demonstrate the breadth of their knowledge and understanding of animal science and management.
- Nearly **40** Maryland youth participated in **8** national 4-H science competitive events to demonstrate their knowledge and expand their networks across the country.
- **3,487** Maryland and West Virginia 4-H youth completed the online Animal Husbandry and Quality Assurance training to increase skills in best management practices and ethical behavior for responsible production of livestock.
- Over **250** participants engaged in various Maryland 4-H equine clinics, workshops and contests and learned about equine science and horsemanship topics and interacted with fellow equine enthusiasts and partners.



### • Robotics

**48** youth comprising **11 teams** from 6 counties participated in the 2022 Maryland 4-H Robotics Challenges at State Fair. Over **20 teams** participated in Maryland 4-H Robotics events throughout the season, including local qualifiers and workshops. The theme for both the Lego and the Robotics Engineering Challenges were focused on Aquaculture as part of a grant and ongoing programming with UMD's Clark School of Engineering, focused on sustainable shellfish management practices.

STEM  
1,533

### • Engineering Camp

**32** youth from **12 counties** participated in the Maryland 4-H Engineering Camp in April. Engineering Camp introduces youth to various STEM and Engineering activities and careers, and to provide hands-on experiences to prepare youth for some of the 4-H county, regional, and state contests. In addition to in-depth exploration of Engineering projects, workshops and challenges test youth's ability to use the Engineering Design Process to solve problems and achieve goals.

### • 4-H+NASA-Mission: The Sun

A pilot program for a new 12-hour virtual series in cooperation with NASA HEAT (Heliophysics Education Activation Team) at Goddard began in 2022. Its aim is to use the sun to engage audiences with STEM concepts in new and exciting ways. The program has reached **31** Maryland youth and **27** 4-H adult facilitators from **12** states.

# MARYLAND 4-H YOUTH THRIVE

## Growing Thriving Youth



Fairs provide opportunities for 4-H youth to exhibit their project accomplishments, demonstrate mastery, develop leadership and teamwork, and receive important recognition.

## Growing Thriving Youth



Operating heavy machinery is an integral part of the farming industry. Youth in 4-H learn about tractor safety and how to operate it more safely and efficiently.

- **Environmental Science:**

The Maryland 4-H Horticulture team placed **2<sup>nd</sup>** at the National Junior Horticulture Associations contest. The **1<sup>st</sup> place Grand National Overall Winner** was from the Maryland Team. Maryland had first-place award winners in creative writing, information writing, photography, state displays, and flower arrangements.

ENVIRONMENTAL  
3,339  
SCIENCE

- **Camping:**

This past year there were **13** County Resident camping programs, and **11-day** camping programs, serving approximately **1,500** youth. In addition, **250** Teen and Adult camp leaders received **30+** hours of camp training through state camp training, in-services, and county lead training sessions. Topics included behavior management, risk management, leadership, group dynamics, and communication.

- **Shooting Sports:**

The shooting sports program teaches youth the highest standards of safety, sportsmanship, and ethical behavior while encouraging participation in natural resources and related natural science programs. **184** Shooting Sports Instructors donated **3,191** hours of instruction which has an estimated value of **\$95,570**. Additionally, volunteers contributed 528 hours to support state contests. **51** youth participated in the statewide archery contest, **25** in rifle and **49** in shotgun.

- **Pollinator programming:**

**Six** pollinator lessons were piloted in summer camps across the state. A Nurture Natives program was established to reach over **150** individuals through our educational programs hosted at local schools, camp, and fair. This program works with local farmers and nurseries to educate youth on the importance of biodiversity and increase the number of native trees and pollinators across the state.

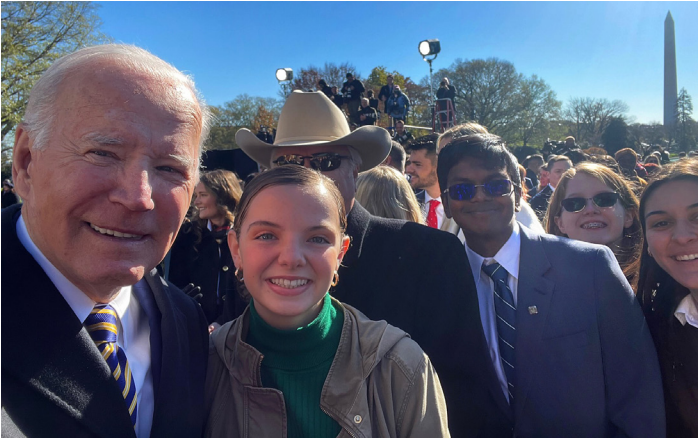


The Maryland 4-H Horticulture team placed second at the National Junior Horticulture Associations contest.

# MARYLAND 4-H YOUTH THRIVE

## Developing Leadership Skills

CIVIC ENGAGEMENT  
1,162



Youth from our Maryland 4-H State Council were invited to the Turkey Pardoning by the President of the United States and shared their 4-H story with elected officials at the White House.



Teen Pollinator Ambassadors created a program to educate the public about native plants. In addition, they met with local legislators and shared their work.



National 4-H Congress provides an opportunity for youth to develop leadership skills and meet other teens from around the world. Maryland 4-H teens apply for national leadership trips through their senior portfolio, essay, resume, and interview. Once selected, they participate in workshops, events, and community activities.



Maryland 4-H youth demonstrate their knowledge and skills at several national 4-H animal science competitive events. Youth prepare year long through hands-on workshops, coaching sessions and local competitions. This year, our Livestock Skillathon team placed **4<sup>th</sup> in the country**.



Maryland Day provides 4-H youth with an opportunity to lead hands-on activities and share their 4-H projects. Youth from the Seeds and Harvest 4-H club represented 4-H well at UMCP.



Maryland State 4-H Council members are invited to many events, including the Taste of Maryland Agriculture, where they help bring the flags of the counties and Baltimore City and meet and greet distinguished guests.

# MARYLAND 4-H YOUTH THRIVE

## Finding Youth Sparks

HEALTHY LIVING  
5,532



Youth demonstrate their cooking, nutrition and good safety skills in front of a live audience.



The shooting sports program is offered to youth 8-18 and fosters teamwork, precision, safety, and responsibility.



At the Mid Shore STEM Festival, youth from the surrounding area discover their interests in STEM-related programs, African American contributions to Agri Science and future careers.



“I went completely out of my comfort zone and had the most amazing experience at 4-H camp so glad we had camp this year.”  
– 4-H Teen Camp Counselor



Local and state fairs allow youth to demonstrate their mastery of skills, build self confidence through competition, engage with local community and build life long friendships.



CLOVERS

788

# MARYLAND 4-H IS POSITIVE YOUTH DEVELOPMENT

## Service to Others



Maryland 4-H youth engage in service to community year long. Youth learn about responsibility to their community, country and world.



The Diamond Clover Award Program engages 4-H youth in a variety of projects and activities that will enable them to acquire skills related to leadership, community service, civic engagement and advocacy. The award consists of six levels that require a 4-H member to plan and accomplish a broad range of age-appropriate goals with supportive volunteers and community members. The Diamond Clover Project is one-way 4-H youth can make a lasting difference in their community.



Maryland 4-H formalized a longstanding partnership with the Maryland Farm Bureau. Together, we prepare youth for future careers in agriculture & STEM.

Megan Moore of Kent County created a project called "Kent Agricultural Center Table Project". Mountains of plastic in landfills is a problem. Megan saw a way to recycle plastic and to meet a community need. She collected and recycled plastic to create handicapped-accessible tables for the Kent County Agricultural Center. Through her project, two handicapped-accessible tables were put in place for public use.



Maryland 4-H Center  
University of Maryland, College Park  
8020 Greenmead Drive  
College Park, MD 20740  
Phone: 301-314-9070  
Website: [go.umd.edu/md4h](http://go.umd.edu/md4h)

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