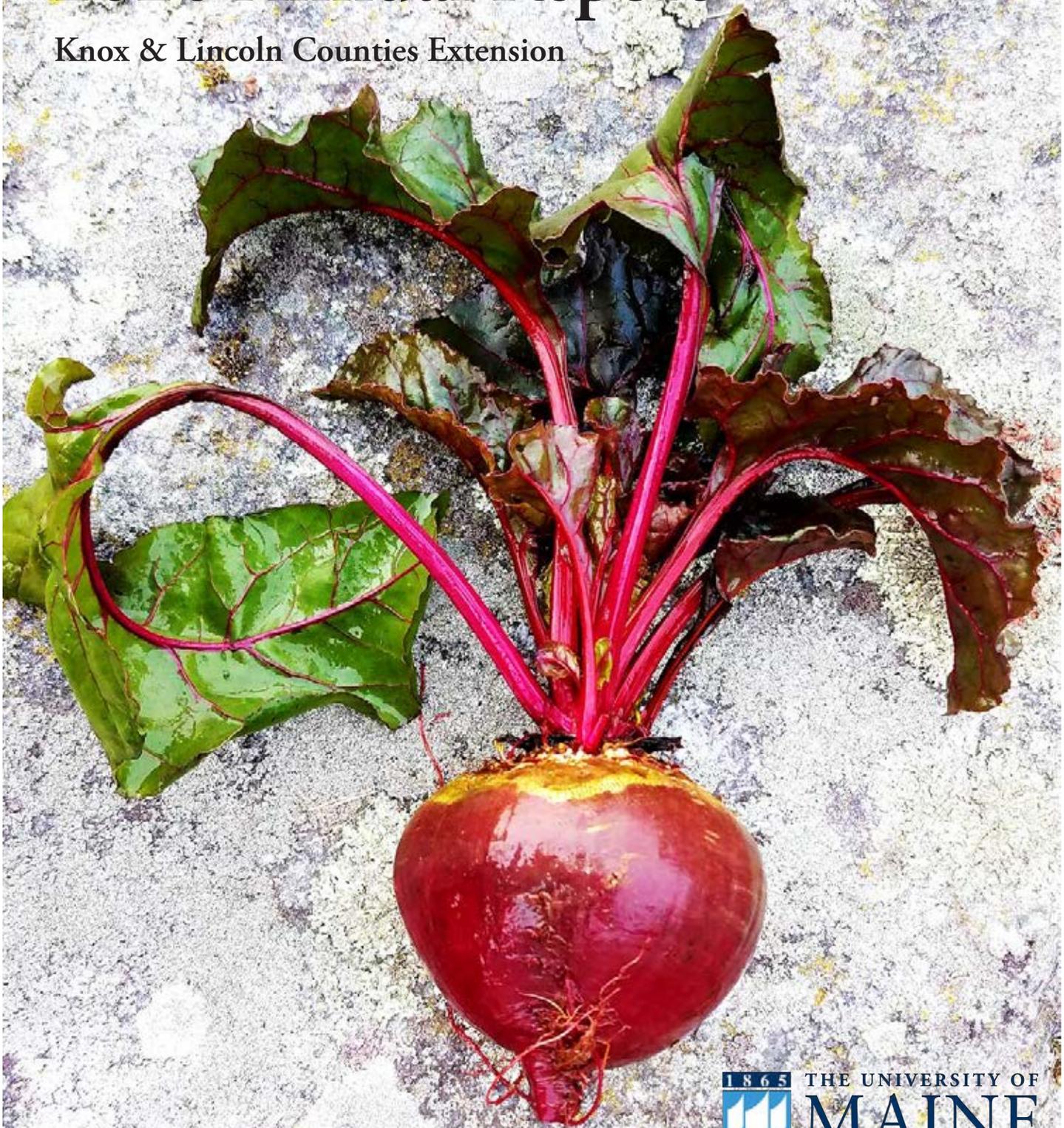


# 2020 Annual Report

Knox & Lincoln Counties Extension



LIZ STANLEY PHOTO



*Putting university research to work in homes, businesses, farms  
and communities for over 100 years.*

[extension.umaine.edu](http://extension.umaine.edu)

The University of Maine is an equal opportunity/affirmative action institution.

# Knox-Lincoln Counties Extension Association

## Executive Committee

Aaron Englander, President  
Craig Currie, Secretary  
Jack Green, Treasurer  
Dawn Jones  
Wendy Roberts  
Gail Varga  
Brett Willard

## Knox-Lincoln Cooperative Extension

377 Manktown Road  
Waldoboro, ME 04572-5815  
207.832.0343 or 800.244.2104 (in Maine)  
For the hearing impaired: 800.287.8957  
Fax: 207.832.0377

## Knox-Lincoln Counties Staff

### Extension Educators

Mark Hutchinson  
Esperanza Stancioff

### Professionals

Ellen Baker	Ruth Griffin
Marylou Cook	Keri Kaczor
Jennifer Doherty	Ryan LeShane
Heather Elowe	Hannah Pennington
Parker Gassett	Brooke Sanborn
Gretchen Gee	Claudia Williamson

### Community Education Assistants

Cindy Rogers  
Liz Stanley

### Administrative Specialist

Pamela Doherty



## University of Maine Cooperative Extension seeks volunteers to serve on the Knox-Lincoln Counties Executive Committee

UMaine Extension can only be successful with the help of county residents serving on the Executive Committee. Board members provide oversight and support to staff, as well as help promoting programs.

Knox-Lincoln Extension is one of the most active in the state providing a broad range of programs: 4-H youth development, assistance to commercial farmers and home gardeners, support to communities facing climate change impacts including sea level rise, flooding and erosion in order to improve coastal resilience, and in-home education for new parents.

Executive Committee members are asked to attend four two-hour meetings a year focusing on county programming, building maintenance, and finances. Members can certainly follow their interests and become more involved in any of the county programs.

If you're interested in UMaine Extension Programs and giving back to your community, serving on the Executive Committee is a great place to be! For more information, please contact Esperanza Stancioff 207.832.0343, in Maine 800.244.2104 or email: [esp@maine.edu](mailto:esp@maine.edu)



# President's Message

Dear Knox-Lincoln Cooperative Extension Community,

Spring Greetings! My first connection with the University of Maine Cooperative Extension was through a Research Assistantship at the Extension office in Orono. I spent many hours at the Rogers Farm in Old Town, on long trips to Aroostook County and other farms researching soil management for organic bread wheat production. I gained a lot from my experience as a graduate student working directly with Cooperative Extension, and it is my honor to give back by serving as President of the Knox-Lincoln Cooperative Extension Association Executive Committee (KLCEA-EC).

I am continually impressed by the breadth and depth of Knox-Lincoln Cooperative Extension's work locally, throughout the state of Maine and beyond. From infant and early childhood support for young families to climate change initiatives; technical support for home gardeners and commercial farmers; Master Gardner volunteer programs; composting expertise at the state, national, and international level; and countless programs for local youth through 4-H clubs, Blueberry Cove 4-H Camp & Learning Center, and other collaborating sites, KLCEA has a major impact on the community.

The broad-reaching, diverse programs and services offered by KLCEA are a true gift to the community. I want to extend a heartfelt Thank You to all the staff, Executive Committee members, volunteers, and program participants who make Cooperative Extension what it is: a truly cooperative, community-based program that serves the greater good. We must also take a moment to thank the University of Maine that funds Cooperative Extension's professionals, researchers, and educators; and tax funding from Knox and Lincoln Counties that supports the facility in Waldoboro and salaries for essential support staff.

The EC committee oversees the budgeting, facilities management, vision, and program direction of KLCEA. We are a volunteer committee that is always seeking new members who share a vested interest in the community well-being of Knox and Lincoln counties. If you are interested in joining the EC or being involved with the KLCEA as a volunteer or in any capacity, please contact our office for more information.

Please enjoy this report and you may be as amazed as I at all the great work going on at Knox-Lincoln Cooperative Extension.

Sincerely,



Aaron Englander, KLCEA Executive Committee President  
Maine Coast Heritage Trust  
Erickson Fields Farm and Program Manager  
Rockport, Maine

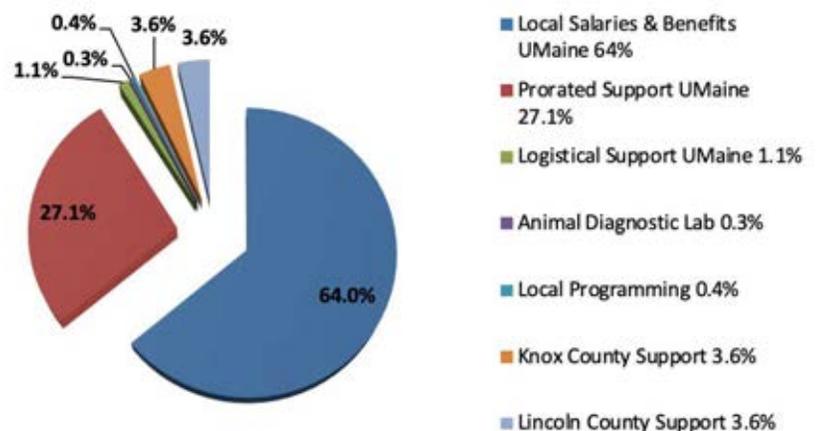


CINDY ROGERS PHOTO

## Knox-Lincoln Extension Financial Resources

This graph illustrates the financial resources for programs offered, supported and managed from the Knox & Lincoln Counties office. Each year, Knox & Lincoln Counties tax dollars support UMaine Extension with physical office space, support staff salaries, office supplies, equipment and programming expenses.

As a unique partnership among federal, state and county governments, UMaine Extension uses funding from Maine counties and the University to match and leverage support from the United States Department of Agriculture, other federal grantors, state agencies and private foundations. Each UMaine Extension county office is also part of a statewide organization and the national Extension system.



## 4-H Youth Development

information: ryan.leshane@maine.edu

- 4-H Public Speaking was successful in 2020 despite Covid-19 restrictions. Prior to quarantine, Knox-Lincoln 4-H members presented on the stage at the 2020 Maine Agricultural Trades Show in Augusta, Maine, in January, and held the county public speaking tournament in-person in early March. Shifting quickly, the Maine 4-H Public Speaking Tournament was held as a live, virtual event. Served 28 youth from 12 counties; 8 from Knox-Lincoln. 85% of youth reported increased confidence, 58% said it helps them in school, 100% anticipate using public speaking in future careers.



- The 4-H Virtual Exhibit Hall, a substitute for canceled fairs, was built on the Extension website. 4-H youth from all over Maine submitted photos of their projects for judging. Volunteers and staff from several counties served as judges. The exhibit can be viewed at: <https://extension.umaine.edu/4h/virtual-fair/>.
- Maine 4-H Summer Learning Program served over 100 youth with 50 hands-on workshops and activities led by 4-H Staff (including Knox-Lincoln), Volunteers, and Youth. Delivered online, or with kits mailed to homes.

above: 4-H Virtual Exhibit Hall

left: Screen shot from the Maine 4-H Public Speaking Tournament, held as a live, virtual event in 2020.

## Parent Education

information: jennifer.d.doherty@maine.edu

### Maine Families Home Visiting Program

- As part of a statewide network of Maine Families Home Visiting Programs, our team of six parent educators provided 1,401 home, virtual and phone visits to 143 families and 154 children, living in Knox, Lincoln and Sagadahoc Counties.
- Using the evidence-based Parents As Teachers™ Model, our team provided researched based information and caring support to fit each family's needs and concerns, supporting parents in their role as their child's first and most important teacher.
- Results collected this year show that 91% of children enrolled had a timely developmental screening. In cases where a delay was discovered, 100% of those children were successfully referred and connected with local intervention programs for further developmental evaluation and services. 100% of families who completed our annual parent survey reported Maine Families helped them understand their child's growth and development.
- Before the current health crisis, Maine Families was already a critical link for new and expectant parents, providing one-on-one support at no cost to eligible families, to promote maternal, infant and child health, foster healthy development and school readiness,



Maine Families promotes language and literacy through book sharing and activity ideas.

and provide parenting support. Now more than ever, Maine Families is an essential service for families as they navigate social isolation, economic uncertainty, the challenge of balancing work without childcare, and other unique and heightened stressors brought on by the COVID-19 pandemic.

## Master Gardener Volunteer Program

- Master Gardeners volunteered from home or worked in isolation during the 2020 growing season. They donated produce from their home gardens, and joined food councils and gleaning organizations to support Maine Harvest for Hunger. They also wrote articles for Maine Home Garden News, designed pollinator-friendly gardens for public spaces, mentored new gardeners online, conducted gardening classes via Zoom, and answered questions on social media using research-based fact sheets. The 2021 Master Gardener Volunteer training will be designed as a state-wide online program.



LIZ STANLEY PHOTO

## Home Horticulture

- The pandemic inspired many to try gardening for the first time. UMaine Extension's state-wide horticulture team developed multiple series of webinars and videos for beginner gardeners. The Victory Gardens for Maine series can be found on our Garden and Yard website.
- Over 475 client calls to Knox-Lincoln Extension included record requests for soil testing kits, continued questions about browntail moth, and interest in Plants for the Maine Landscape.



LIZ STANLEY PHOTO

left: Squash and Pumpkins for Maine Harvest for Hunger  
above: Bumble bees on asters at Langlais Sculpture Preserve

# Commercial Agriculture

## Local Farm Markets

- When Covid-19 began in 2020, local foods became a focal point for Maine consumers. Local farms were overwhelmed by the demand for locally produced vegetables, meat, poultry, eggs and other farm products. For many farmers this meant a shift in marketing strategies, away from wholesale and restaurants with a pivot to direct consumer sales. Extension provided information and assistance to both consumers and farmers during the season to help make these connections. These include the *Maine Farm & Seafood Products Directory* <https://extension.umaine.edu/agriculture/farm-product-and-pickup-directory/>, as well as guidelines for best practices for farmers markets and farm stands <https://extension.umaine.edu/food-health/food-safety/farmers-market/>.

## Crop Consultations

- Over 250 individual crop consultations were made during the 2020 growing season. Farm visits were limited but with the use of technology many diseases and insect pests were identified and managed.



MARK HUTCHINSON PHOTO

## Field Research

- We were able to complete the first year of a Northeast Sustainable Agricultural Research and Education (SARE) tarping research project. Tarping is a practice of interest to many commercial organic vegetable and small fruit growers for weed and soil moisture control.
- The University of Maine is developing a compost nutrient loss model. This model will help state and federal environmental agencies determine the amount of nutrients lost during the compost process. The information will then allow compost operations to develop better management plans for commercial scale operations. Initial data indicates nutrient losses from composting are minimal.



MARK HUTCHINSON PHOTO

left: Pigweed  
above: Beets grown as part of the SARE tarping research project

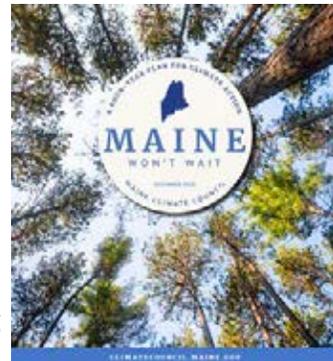
# Climate Change

information: esp@maine.edu

ESPERANZA STANCIOFF PHOTO



stormwater infrastructure maintenance, energy efficiency, and community climate education. Along with partner organizations in the Climate Change Adaptation Providers Network, and in alignment with the *Maine Won't Wait* climate action plan, we aim to build connections among coastal communities.



- Our Collaborating Toward Climate Solutions (CTCS) Project began June 2020 to support on-the-ground problem solving for the complex challenges that communities in Penobscot and Passamaquoddy Bays face: sea level rise, storm surge, stormwater, flooding, and erosion. Our CTCS team works closely with municipal officials to support communities “where they’re at” in adapting to local impacts. This includes learning about community priorities and challenges, and identifying potential service provider partners, best practices, and the potential for networks enabling towns to connect and learn from peer communities. Through work with local leaders we have developed a series of workshops to provide technical and strategic assistance for communities around flooding and sea level rise, storm damage and emergency response,

- Signs of the Seasons (SOS): A New England Phenology Program provides an opportunity for students, adults and families to contribute to science and improve their understanding of our changing climate by making observations of common plants and animals, such as American robins, monarch butterflies, sugar maples, and more. Community scientists record information about the occurrence of leaf-out, flowering, nest building, migration, and other life cycle events. Data collected through SOS is used by researchers and managers to better understand how our changing climate will impact species commonly found in New England. In 2020, we had one of the highest number of volunteers submitting data. Please join us by attending a virtual training to get started: <https://extension.umaine.edu/signs-of-the-seasons/training/>.

# Alliance for Maine's Marine Economy

information: kerikaczor@maine.edu

KATHLYN TENGA-GONZÁLEZ PHOTO



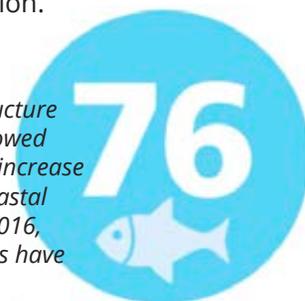
*The Alliance's initial bond funds supported Tenant's Harbor Fishermen's Coop/Maine Aquaculture Coop's new ventures with scallop aquaculture.*

- The Alliance for Maine's Marine Economy is a responsive network of companies, organizations, and individuals dedicated to a vibrant marine economy for Maine. Coordinated by Marine Extension Team member Keri Kaczor, the Alliance helps enable healthy coastal working waterfront communities.

- Initially formed in 2016 around a state-sponsored, citizens' marine bond initiative (seven million dollars in public funds administered by Maine Technology Institute, plus more than seven million dollars in initial private investments), the Alliance enabled 17 investments in technology, infrastructure, and workforce development that are transforming Maine's seafood economy. Six of those projects are located in Knox and Lincoln Counties.

- In 2020, the Alliance hosted a series of virtual forums featuring innovative strategies businesses are using to adapt to changing markets and consumer needs in the wake of COVID-19, and a panel of experts sharing the assets and resources that exist related to seafood safety and product diversification.

*The Alliance's investments in infrastructure and innovative technologies have allowed businesses to develop new products, increase revenue, and grow jobs in Maine's coastal communities and economies. Since 2016, 76 new seafood products and services have been created.*





LIZ STANLEY PHOTO

## The County Extension Act

*The County Extension Act explains the role of county government in funding local Extension offices.*

Cooperative Extension work shall consist of the giving of practical demonstrations in agriculture and natural resources, youth development, and home economics and community life and imparting information on those subjects through field demonstrations, publications and otherwise. For the purpose of carrying out this chapter, there may be created in each county or combination of two counties within the State an organization known as a "county extension association," and its services available to all residents of a county. The county extension is viewed as a unique and important educational program of county government. The executive committee of each county extension association shall prepare an annual budget as requested, showing in detail its estimate of the amount of money to be expended under this chapter within the county or counties for the fiscal year. The executive committee shall submit to the board of county commissioners on a date requested by the county commissioners, and the county commissioners may, if they deem it justifiable, adopt an appropriate budget for the county extension program and levy a tax therefore. The amount thus raised by direct taxation within any county or combination of counties for the purposes of this chapter shall be used for the salaries of clerks, provision of office space, supplies, equipment, postage, telephone, a contribution toward the salaries of county educators and such other expenses as necessary to maintain an effective county extension program.<sup>1</sup>

<sup>1</sup>Excerpted from Title 7, Chapter 7 of the Maine Revised Statutes, §191–§195.



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## Additional Resources

### **Knox-Lincoln Extension Impacts During Covid-19:**

<https://extension.umaine.edu/knox-lincoln/cooperative-extension-impacts-during-covid-19/>

### **University of Maine Cooperative Extension 2020 Annual Report:**

<https://extension.umaine.edu/about/annual-report/>

### **Garden & Yard Page for Home Gardeners:**

<https://extension.umaine.edu/gardening/>



LIZ STANLEY PHOTO

**For more information contact:**

University of Maine Cooperative Extension  
Knox-Lincoln Counties  
377 Manktown Road  
Waldoboro, ME 04572  
207.832.0343 or 800.244.2104 (in Maine)

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University of Maine Cooperative Extension's successful educational programs result from a federal, state, and county government partnership. Since 1919, when the Maine Legislature passed the County Extension Act, the University of Maine has been in all Maine communities with a county office whose operations are funded by county government. Our educational programs anticipate and respond to local and state needs and issues. We also communicate those issues and opportunities to UMaine faculty to influence their research and development plans.