

Outcomes & Impact Quarterly – Volume 2 2026

10/13/2026

```
$(document).ready(function(){ $('#.pdf-wrapper').hide();  
$('#.pageTitle').addClass('text-bold'); });
```

Outcomes & Impact Quarterly – Volume 2 2026



A Message From the Vice President



As I reflect on the work of USU Extension across Utah from this past year, I'm reminded that our greatest strength lies in being deeply rooted in the communities we serve. That connection allows us to turn research into real-world impact—supporting youth, strengthening agriculture, and helping families and communities thrive.

This issue highlights how Extension is preparing the next generation for life and work, advancing resilient and

sustainable agricultural systems, and improving well-being for individuals and families across the state. Together, these efforts reflect our ongoing commitment to growing Utah's future through trusted relationships, practical solutions, and community-based impact.

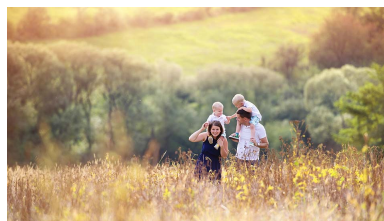
Sincerely,

Justen O. Smith

Vice President, USU Extension and Director, Agriculture and Natural Resources Department



Agriculture & Natural Resources



Home & Community



4-H & Youth Programs

Agriculture & Natural Resources

Strengthening Utah's Ag and NR for Food Security



Utah's agricultural and natural resource systems face growing challenges from water scarcity, climate variability,

rising input costs, invasive species, and changing market demands. These pressures affect food security, environmental sustainability, and the economic viability of farms and ranches. At the same time, population growth and interest in local food production place additional demands on agricultural systems.

In 2025, USU Extension's Agriculture and Natural Resources faculty delivered applied research, field demonstrations, workshops, consultations, and technology-driven solutions focused on crop production, livestock and grazing management, horticulture, water conservation, and natural resource stewardship.

Programs addressed soil fertility, pest management, irrigation efficiency, crop diversification, grazing systems, livestock reproduction, and emerging technologies such as virtual fencing. Drone technology was used to locate livestock and identify irrigation system inefficiencies, while water management initiatives provided data to support more efficient use of limited resources.

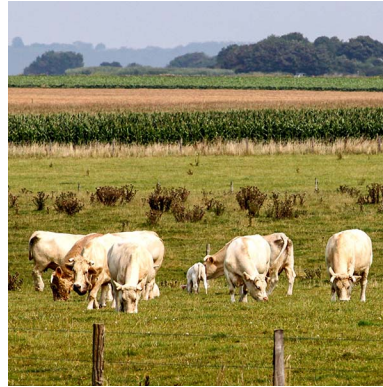
Horticulture and urban agriculture programs expanded household and community food production through Master Gardener volunteers, educational programs, and digital outreach. Natural resource efforts promoted food security, collaborative land management, invasive species control, ecosystem restoration, and partnerships among stakeholders.

USU Extension programs produced significant economic, agricultural, and environmental benefits across Utah:

- Agronomy programs increased crop yields by 7.4%, generating an estimated **\$4.2 million** annually in direct economic impact and up to **\$8 million** in broader economic effects.
- Fertilizer optimization saved Utah corn producers an estimated **\$3.2–\$4.2 million** annually.
- Livestock and grazing programs generated more than **\$1.6 million** in economic benefits, while improved grazing practices demonstrated the potential to increase stocking rates by up to **75%**.
- Extension-supported market development efforts generated **\$2.82 million** in wheat sales.
- Drone-assisted livestock management helped recover animals valued at more than **\$300,000**.
- Master Gardener volunteers contributed more than **4,450 service hours** valued at over **\$143,000**.
- Natural resource initiatives supported restoration across **tens of thousands of acres**, secured **millions of dollars** in funding, improved water-

use efficiency, and strengthened collaborative land stewardship.

2025 Agriculture & Natural Resources Highlights



Following the Monroe Canyon Fire, USU Extension and its partners used virtual fencing to preserve grazing access for **~1,569 cattle** owned by **16 producers**.

Without this intervention, producers could have faced **\$468,050** in additional feed costs annually. Estimated savings are **\$936,100** over two years or **\$1.4 million** over three years.



The Utah Division of Natural Resources awarded USU's Bastian Agricultural Center **\$1 million** to develop the Silo Slopes Bike & Snow Park. The project will expand access to outdoor recreation and education for youth from Salt Lake and Utah County and across the state through 4-H and school partnerships.



Summit County's youth livestock sale generated **> \$950,000** at the Summit County Fair, with **169 animals** sold – a significant local economic contribution to help young people develop agricultural, financial, entrepreneurial, and workforce skills.



The Davis County diagnostic clinic completed **>500 plant and pest consultations** with a **94%** resolution rate. These services help residents avoid unnecessary pesticide treatments, select climate-appropriate plants, and protect their landscape values.



Garfield and Piute County Extension offices delivered natural-resource education to 554 elementary students

and **122 adults**. In Duchesne County, more than **300 youth** and **90 adults** participated in **12 hands-on livestock events**, building agricultural knowledge, confidence, and practical skills.

Home & Community

Strengthening Utah Families and Communities

Utah families face interconnected challenges that affect financial security, health, and overall well-being. Economic pressures leave many households vulnerable to unexpected expenses, while food insecurity and limited nutrition knowledge contribute to poor dietary outcomes and increased risk of chronic disease. Family stress, relationship conflict, and major life transitions can negatively affect mental health, child development, and long-term family stability. Barriers such as cost, access, and confidence often limit participation in educational and wellness opportunities, particularly in rural communities.

In 2025, USU Extension's Home and Community Department implemented a statewide, research-based approach to strengthen financial capability, family relationships, nutrition, and community well-being. Programs were delivered through workshops, virtual courses, community events, self-guided resources, and train-the-trainer models to increase accessibility and reach.

Financial education programs taught budgeting, debt reduction, goal setting, and emergency savings. Relationship and family programs provided tools to improve communication, strengthen family connections, and support positive co-parenting. Nutrition and health initiatives, including Create Better Health (SNAP-Ed), NourishHealth, and Diabetes Cook Along, helped participants improve food choices, meal planning, cooking skills, and disease management. Community wellness programs promoted physical activity, social connection, and mental well-being through accessible, community-based activities.

USU Extension programs produced measurable improvements across financial, relational, nutritional, and wellness outcomes. Participants reported greater financial knowledge, confidence, budgeting, savings, and debt reduction, leading to improved financial resilience.

Nutrition and health programs increased:

- Fruit and vegetable consumption
- Nutrition knowledge

- Confidence in meal planning and food preparation
- Food Security
- Healthy behaviors over time

Family and relationship programs strengthened:

- Communication
- Problem solving
- Family connection
- Relationships
- Engagement with children
- Commitment to reducing conflict

Community wellness initiatives improved:

- Physical activity
- Social connections
- Mental well-being
- Quality of life
- Family stability
- Community resilience

2025 Home & Community Highlights



Five rural businesses launched e-commerce websites through USU Extension's E-Commerce Accelerator. Six participating businesses reported increased online sales, generating more than **\$268,000**. Since 2023, participating businesses have had **~\$1.8 million** in sales.



USU Extension led the nation in youth physical activity. Utah's Marathon Kids Summer Movement Challenge ranked No. 1 among **161 programs** in **31 states**. Its **298 participants** logged **19,272 miles**, equivalent to **~735 marathons**.



Remote-work training connected rural Utahns with employment. Of **52** participants in the Certified Remote Work Professional course, **47** completed it, and **97%** said the program increased their value as remote workers and empowered them to pursue remote employment. Fourteen graduates secured jobs.



~1,500 people participated in a USU Extension personal finance workshop or course from April through June, showing the need for education that strengthens household financial stability and self-sufficiency.



NourishEd served **120 Uintah County participants** and distributed **500 pounds** of locally produced food. This improved access to nutritious food while supporting local agriculture.



USU Extension's HEART Initiative reached **>1,000 residents** through **9 behavioral health events** in Carbon and Emery County. The initiative connected families and youth with substance-use prevention, mental-health, and wellness resources while strengthening local partnerships.

4-H & YOUTH PROGRAMS

Preparing Utah Youth for Life and Work

Utah youth face increasing challenges related to mental health, workforce readiness, and access to meaningful skill-building opportunities. Stress and anxiety can affect well-being, while many youth, particularly in rural communities, have limited access to enrichment, mentorship, leadership, and career exploration. Employers and communities also expect skills such as problem-

solving, communication, responsibility, and teamwork, yet youth need opportunities to develop and practice these skills.

In 2025, USU Extension's 4-H and Youth Programs Department used a statewide, research-based approach grounded in Positive Youth Development and the 4-H Beyond Ready framework. Programs were designed to build competence, confidence, connection, character, caring, and contribution while preparing youth to be Ready for Work and Ready for Life.

Afterschool programs, camps, youth clubs, leadership initiatives, STEM activities, and career exploration provided hands-on learning and opportunities to practice skills with support from mentors and peers. Specialized programs addressed mental health, substance use prevention, literacy, college readiness, and emerging career fields. Programming also expanded access to technical and leadership opportunities in rural communities.

STEM and career initiatives increased technical skills and career awareness, while more than 90% of participants in college-readiness programs reported greater preparedness to pursue higher education. Leadership, mentoring, and service-learning opportunities extended benefits to peers and communities through increased civic engagement and service. These efforts strengthened protective factors, expanded access to skill development, and helped prepare a more confident, resilient, and workforce-ready generation of Utah youth.

Youth reported improvements in:

- Character
- Caring
- Connection and contribution
- Problem-solving
- Leadership
- Work ethic
- Emotional well-being
- Happiness
- Stress and anxiety
- Confidence
- Resilience
- Academic engagement
- Social interactions



A MESSAGE FROM THE VICE PRESIDENT

As I reflect on the work of USU Extension across Utah from this past year, I'm reminded that our greatest strength lies in being deeply rooted in the communities we serve. That connection allows us to turn research into real-world impact—supporting youth, strengthening agriculture, and helping families and communities thrive.

This issue highlights how Extension is preparing the next generation for life and work, advancing resilient and sustainable agricultural systems, and improving well-being for individuals and families across the state. Together, these efforts reflect our ongoing commitment to growing Utah's future through trusted relationships, practical solutions, and community-based impact.

Sincerely,

Justin O. Smith
Vice President, USU Extension and
Director, Agriculture and Natural Resources Department



Agriculture &
Natural Resources



Home &
Community



4-H & Youth
Programs

[View More Impacts](#)

[Download PDF](#)