

IMPACT MATTERS

Sara Delheimer *mrfimpacts.org*



WORKSHOP AGENDA

- Present tips
- Critique examples
- Q&A





WHAT IS IMPACT?

An impact is a *change* in:

- Knowledge
- Behavior
- Condition











CHANGES IN KNOWLEDGE

- Farmers demonstrated greater knowledge of pesticides
- Consumers improved understanding of food ingredients and labels
- Seniors have greater awareness of mental health resources
- Scientists made breakthroughs the transformed the field



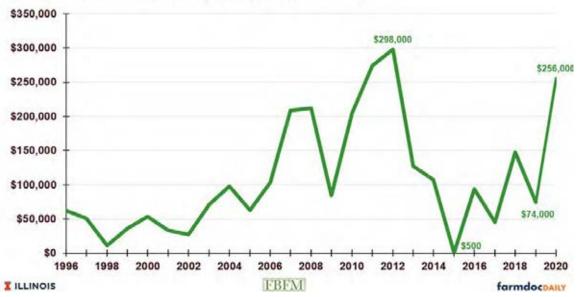




CHANGES IN BEHAVIOR

- Kids are eating more veggies
- Farmers adopted new tools
- Influenced decisionmakers to make policy changes, enact regulations, approve funding

Figure 1. Average Net Incomes of Grain Farms Enrolled in Illinois Farm Business Farm Management (FBFM), 1996 to 2020







CHANGES IN CONDITION

- Economic
- Environmental
- Social
 - e.g., community/family/individual health or wellbeing



WHAT IS AN IMPACT STATEMENT?

Impact statement: a *brief* summary in *lay terms* of the *difference* a project or program has made



WHAT IS AN IMPACT STATEMENT?

An impact statement answers the questions:

- So what?
- Who cares?





WHY IS IMPACT REPORTING IMPORTANT?

- Required
- Accountability
- Influences decisions about your projects
- Raises awareness, interest, and support
- Catches attention





WHO USES IMPACT STATEMENTS?

- Grantors, funders, partners
- Your organization's leaders, PR team
- The media
- Decisionmakers
- Practitioners
- Food/wellness industry
- The general public







2017 Annual Impact Report



Maggie Lawrence, Editor

May 3, 2023

Making A Difference

Land-grant Universities Key in Managing Devastating Emerald Ash Borer











UGA Cooperative Extension is working hard for your constituents. Here is a small sample of successful projects completed in your district this past year:

Improving tomato production

Scientists from the University of Georgia, University of Florida, Clemson University and North Carolina State University worked together over the last two decades to try to alleviate tomato spotted wilt virus.

The RAMP (Risk Avoidance and Mitigation Program) Project compiled data showing an estimated \$9 million loss in tomato and pepper crops between 1996 and 2006. Without resistant varieties, Georgia's tomato crop would have been wiped out.

Today, Georgia's vegetable industry, including the state's tomato and bell pepper fields, is worth \$781 million and accounts for about 10,200 jobs across the state, according to the most recent Georgia Farm Gate Value Report.

Researching alternatives to methyl bromide

Methyl bromide, the main way of managing many pests, including weeds, nematodes, soil-borne pathogens and insects in vegetable crops grown on plasticulture, was removed from the EPA's list of approved chemicals. It's essential that growers adopt alternatives immediately.

In 2002 UGA began an intensive research effort to discover and implement alternatives to methyl bromide. Two alternatives were used on 80 percent of the furnigated plasticulture acreage in Georgia during 2012. With the help of Extension delivery programs, adoption throughout the Southeast is occurring rapidly.

Using these alternatives produce crop yields similar to those with methyl bromide. However, input costs from the alternatives are at least \$250 per acre cheaper. These alternatives replaced methyl bromide on 12,000 acres of land with an economic impact exceeding \$3 million in Georgia during 2012.

Assisting with income tax planning

UGA Extension conducted community outreach tax credit training, and the Colquitt County Extension agent collaborated with local and state groups to implement a bilingual VIIA site in Colquitt County. Community agencies that participated in the training helped with the tax credit outreach and VITA initiative.

Agencies made their low-income clients aware of the available tax credits and VITA site locations to have their tax returns prepared for free VITA site volunteers completed 93 tax returns with refunds totaling \$158,825, without charge to low- and middle-income taxpayers.

Providing quality drinking water

After a few resident well water samples from Monroe County and the surrounding area tested positive for uranium, local UGA Extension agents and state specialists offered educational programs to raise awareness of the issue and ensourage more well water tests.

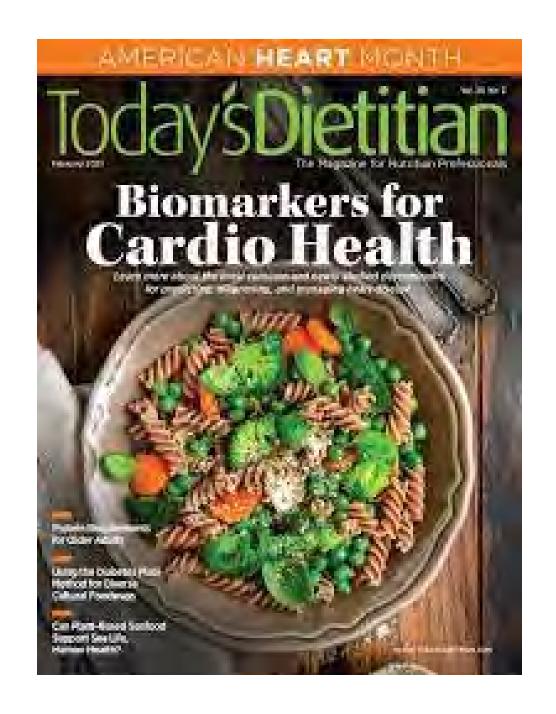
About 800 wells were tested for ursnium, with 39 wells testing positive for higher levels than recommended. Monroe County was awarded a \$500,000 Community Block Development Grant, which will enable the county to run water lines to areas that need access to uncontaminated water.

Developing youths through 4-H

Participation in the *Dodge County 4-H program* has steadily increased as the importance of the program is becoming more evident throughout the county. Since 2010, 4-H has been offered to every 5th grade through 8th grade student enrolled in the school system.

Membership in 4-H has shown an increase from just over 500 members in 2007, to more than 1,000 today. Members are more active in project achievement programs, which are proven to help increase writing and speaking ability and improve test scores. Students also learn about life skills through livestock projects, as participation has grown from just four students to 65. They are also learning gun safety lessons through the BB and shotgun safety and competition teams.





Arkansas Democrat To Gazette

Drones aid in farm efficiency across Arkansas, U.S.

by Will Hehemann Special to The Commercial | August 22, 2022 at 3:17 a.m.





IOWA STATE UNIVERSITY

Office of the Vice President for Research

RESEARCH NEWS





12.9.2020

ISU STUDY INDICATES DIET MAY HELP REDUCE COGNITIVE DECLINE

There's Good News for Wine and Cheese Lovers

CATEGORIES

COMMUNITY ENGAGEMENT

EDUCATION EXPERIENCE

INNOVATIVE SOLUTIONS

KNOWLEDGE & DISCOVERY

RECOGNITIONS, AWARDS & ACCOMPLISHMENTS



Multistate Research Fund Impacts Program @MRFImpacts · 9h

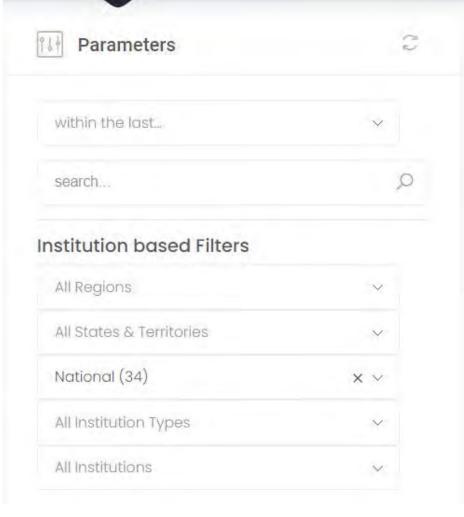
Downy mildew is a major problem for cucumber farmers, but treatment options can be too expensive for many. As part of a @USDA_NIFA project, @UF/IFAS and @MSU_AgResearch developed a new cucumber variety that is resistant to downy mildew. Farmers who adopted this new variety saw yields and revenues increase 20%. Learn more: bit.ly/cucumbers

#NIFAimpacts cucumbers #NationalCucumberDay #NationalPickleDay





Login Search





Using Drones in Agriculture and Natural Resources

In order to maximize resilience and productivity, researchers, farmers, and natural resource managers need to know how plants and animals—and landscapes as a whole—are affected by changing environmental conditions and other stressors. This knowledge enables farmers and natural resource managers to respond quickly to stressors with appropriate, targeted mitigation tactics. This knowledge also guides researchers as they breed tougher plants and animals and develop better management practices and tools.

Remote sensing with drones—unoccupied or unmanned aerial systems—offers a promising new way to characterize landscapes, individual plants and animals, and their various stressors; however, regulations, costs, limited research and education, and other barriers have kept drones from being widely used for agriculture and natural resources.

Since 2016, land-grant university researchers and educators have worked to increase adoption of drones for remote sensing and precise management of agriculture and natural resources.

Working together as a multistate project has many benefits.

Regular communication fosters creativity and productivity and primes the group to respond quickly to emerging issues.

With diverse expertise and members in multiple states, this team can test drones in a wide variety of real-world agriculture situations. In contrast, most prior research has focused on drone use in a single field or a specific crop or stressor. Coordination spreads the workload, reduces duplication, and lowers some costs. Sharing information, equipment, and other resources helps overcome the limited capacity of a single institution.

With members at many universities, the team can tackle the lack of education in the classroom and among other researchers and Extension agents.



What has this project accomplished so far?

Researchers are improving drone sensing and developing new dronebased systems.

This project continues to evaluate and identify the most reliable, cost-effective, and user-friendly drone platforms and sensors for monitoring and managing stressors in agriculture and natural resources.

To maximize the accuracy of the data collected, project members developed hardware, software, and detailed protocols for calibrating and using drones.

Researchers developed new drone-based strategies that can help:

- Scout pests and diseases in fruit, nut, and row crops and apply targeted treatment. These industries face major pest issues that are exacerbated by declining labor availability and increasing consumer demand for fewer chemical inputs. Drones can help overcome these challenges. Clemson University, University of Georgia, Purdue University, Washington State University
- Monitor plant water stress, helping farmers target irrigation. Clemson University
- Evaluate the responses of various genotypes to various stressors and identify plants for crop breeding programs. Drones are less labor-intensive, faster, and can screen more plants than manual screening and they are enabling new types of measurements and biological discoveries. Mantana State University, Texas A&M, Virginia Tech, Washington State University
- Manage pastured livestock. Drones can detect stray herds, create 3D renderings of animals to calculate market value, and assess forage quality. University of Kentucky. Mississippi State University
- Monitor water quality on a large-scale. Mississippi State University, North Carolina State University, Virginia Tech
- Provide higher resolution data for flood risk models and water resource management. Auburn University, Mississippi State University, North Carolina State University, Virginia Tach

New tools help drone users manage the data they collect.

Drone sensing systems can generate a lot of data. Project members developed a user-friendly digital log book for drone operations. Multidisciplinary expertise helped ensure that the log book has the right features for a variety of users. Purdue University

Project members are sharing their knowledge about drones.

Over the past five years, project members have shared their knowledge in many ways, including:

- Fact sheets to help stakeholders understand the regulations and licensing required for drone use.
- Workshops on risk management for current and potential drone users, University of Arkansas, Clemson University, Texas A&M
- Trainings to help forest land managers use drones for less labor-Intensive estimates of timber value.
 Auburn University, University of Florida
- Extension workshops, programs, and materials. University of Arkansos, Clemson University, The Ohio State University, Purdue University; Washington State University
- Digital resources like websites, videos, and datasets.
- 100 peer-reviewed publications, the most recent of which have already been cited 85 times.
- · A book on drones for vegetation monitoring.
- Industry magazine articles that reached thousands of readers in multiple countries.
- · Popular press articles.
- · Regional, national, and international conferences.
- Technical sessions at meetings of professional associations, including the American Society of Agricultural and Biological Engineers.

What are the impacts?

This group's multistate multideciplinary research and putreach have helped overcome barriers and accelerate broader use of drones in agriculture and natural resources. By efficiently objecting large amounts of data, drones can help guide better decision making, greater advances in plant and animal breading, and more profitable and sustainable management.

Drones developed for agriculture can also have impacts beyond the field. After a ternado destroyed a nearby Native American instorical site, scientists at Stephen F. Austin State University in Texas used drone data to create 3D models of the site. These models will help tribe members reconstruct the site.

S1069. Research and Extension for Unmanned Aircraft Systems (UAS) Applications in U.S. Agriculture and Natural Resources is supported in part by the Hatch Multistate Research Fund administered by USDA-NIFA and by grants to participating institutions: Aubum University, University of Airansas, Aransass Cooperative Extension, Clemon University, Cornell University of Florida, University of Georgia, University of Georgia, University of Georgia, University, Mississippi State University, Montana State University, North Carolina State University, Most Carolina State University, North Carolina State University, Vinyland University, North Carolina State University, Washington State University, University, University, Washington State University, University, Washington State University, University, Washington State University, University, Washington State University, W

The Multistate Research Fund Impacts Program communicates the importance and value of Hatch Multistate research projects. Learn more: mrfimpacts.org







QUALITIES OF GOOD IMPACT STATEMENTS

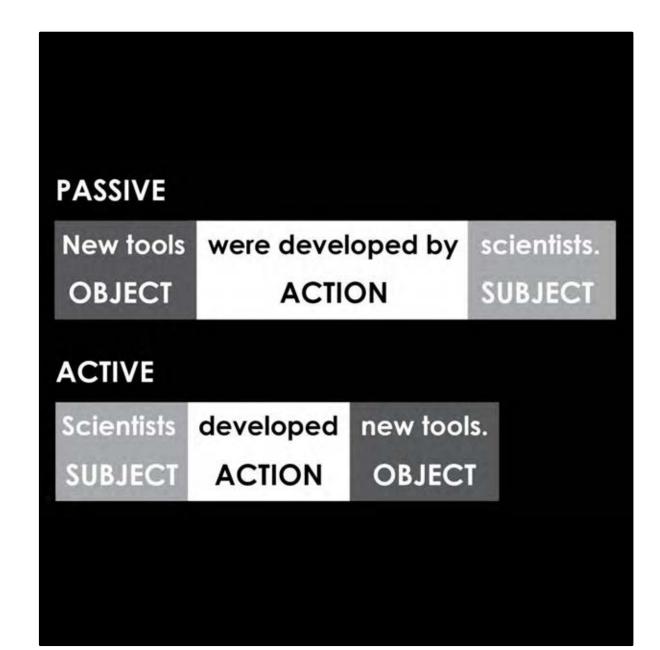
Focused: meaningful; brief, but clear



It's just a mild hyperinsulism due to islet cell hyperplasia with a touch of hepatic insufficiency and glycogen depletion.

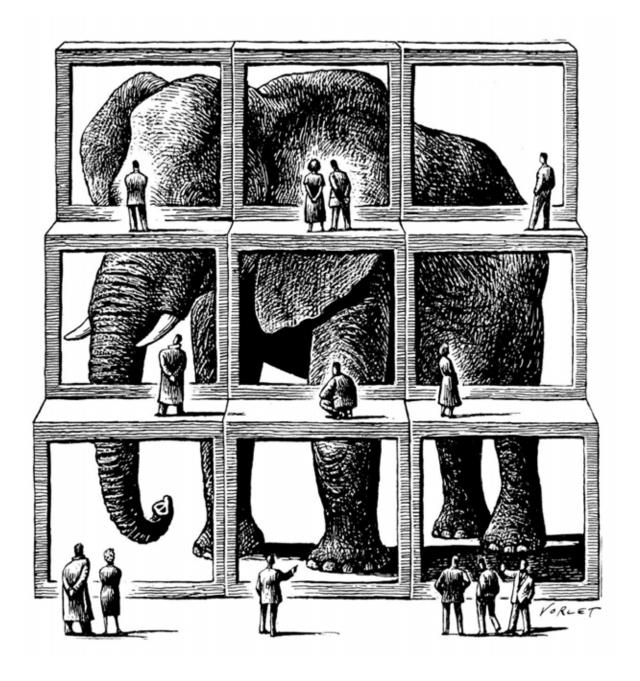
QUALITIES OF GOOD IMPACT STATEMENTS

- Focused
- Do not use jargon



QUALITIES OF GOOD IMPACT STATEMENTS

- Focused
- Do *not* use jargon
- Use active voice



QUALITIES OF GOOD IMPACT STATEMENTS

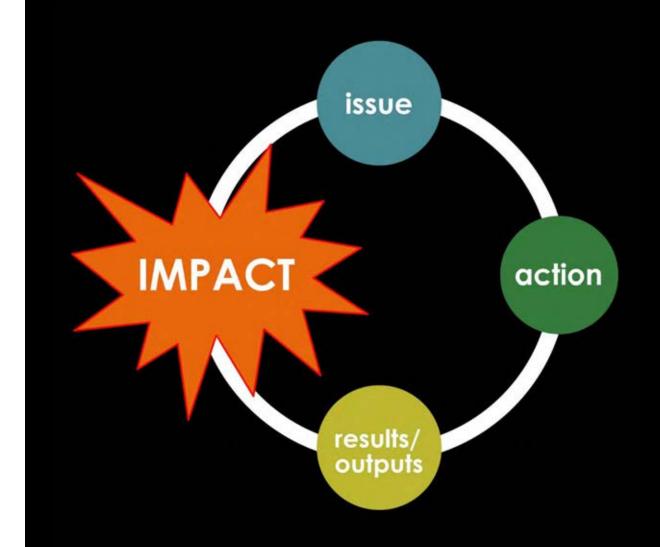
- Focused
- Don't use jargon
- Use active voice
- Provide context—
 describe the big picture

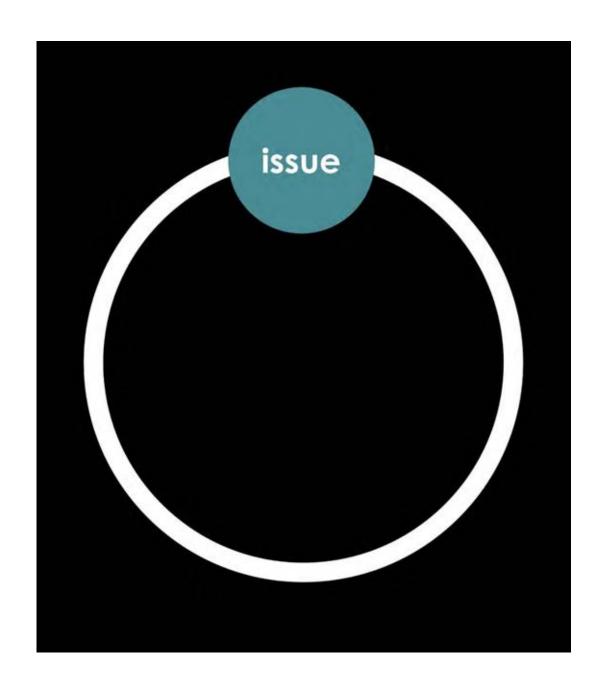
THE PARTS OF AN IMPACT STATEMENT

An impact statement is made up of four main components:

- Issue
- Action
- Results/Outputs
- Impacts

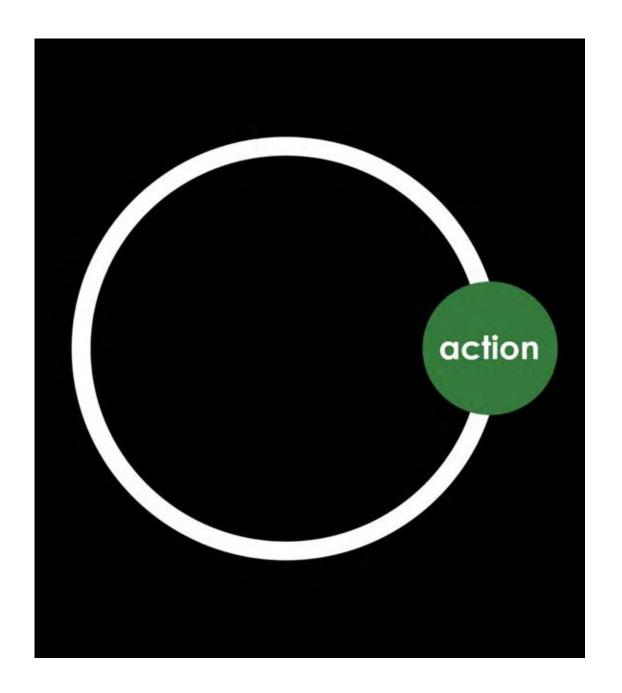
Terminology may vary





ISSUE

- What?
- Why?
- Who?



ACTION

- What was done?
- Who did the work?
- Who funded the work?



RESULTS/OUTPUTS

- Major findings...
- Useful products, tools, models, apps, workshops, publications, educational materials, etc...

...that led to change



IMPACTS

- What kind?
- Where?
- When?
- Who?
- How big/much?
- Public value



PUBLIC VALUE

 Impact: can be focused on program participants, individuals, study sites

 Public value: general public, broader areas, entire communities, regional or national economies



POTENTIAL IMPACTS

Think about *potential* impacts for:

- New projects
- "Basic" science
- Data-gathering or capacitybuilding programs
- Impacts that are hard to observe and measure







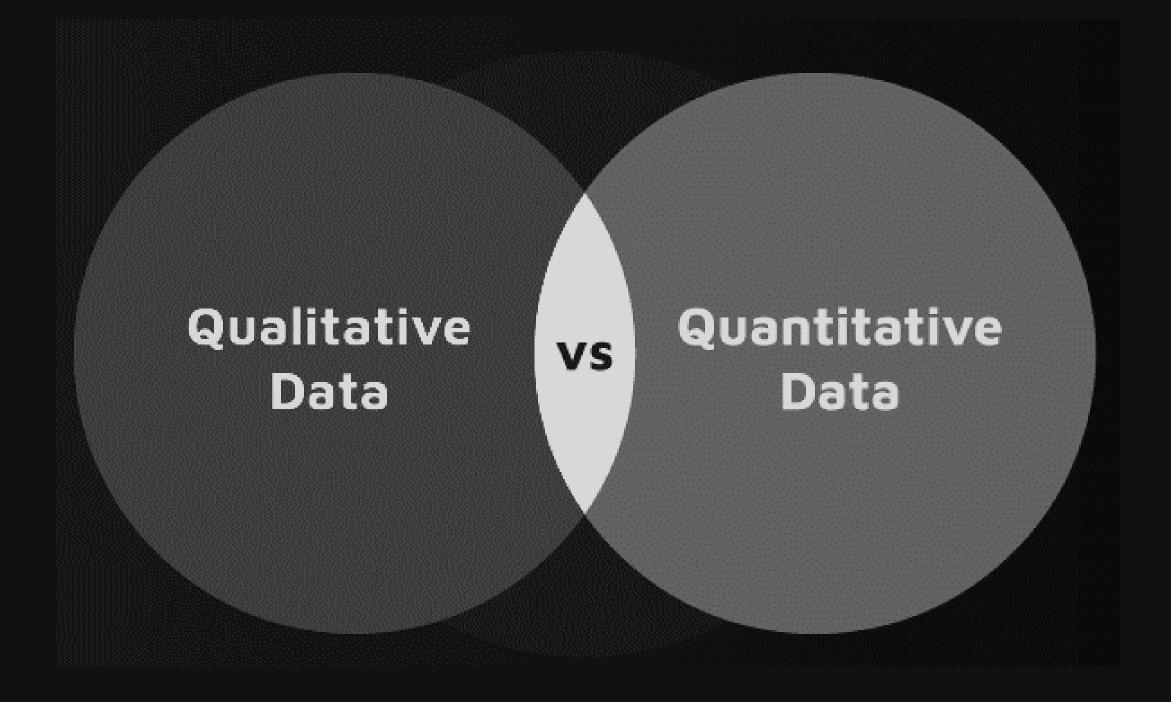


POTENTIAL IMPACTS

- Use clear language: could, might, estimate, predicted, likely; if x then y
- Show calculations







PLANNING TO REPORT IMPACT

- Indicators
- Keep track as you go
- Know how the reporting process works
- Work together



KEEP CALM AND PLAN AHEAD









Impact Success Stories (covering 10/1/20-9/30/21) DUE BY NOV 30, 2021

General Information		1	Story	
Story Title			Story Narrative	
Program Area(s) / Team(s) 3 4-H Youth Development	☐ Cook County Initiative ☐ Family Consumer Science ☐ ENNEP ☐ SNAP Ed		Use the following template to expunite your summary. This is the same formal as we use to submit impact summaries to failured tratitude for face and Agriculture (NIFA) in our arrans regist of accomplishments.	
☐ Administration ☐ ANR (use for AAB/NREE) ☐ Community and Economic Development			Sharing: What is the issue or need? Why is it important to access the issue? Who carrs and why? (1-2 puragraphs)	
Site or OrganizationUnit / County			Baseoss, What has been done in the form of exhreschile address the least or need? Summarian war programmatic exponents the hasse for sum to invoke the his array of exhresch doubling direct exception, and next address/barber/summarian doubling direct exception, and next address/barber/summarian directions and the summarian direction and the summarian direction and the summary address and the summary address marchal exception possible. If 2 paysappoint	
Program Activity Unk this Success Story to one of your Program Activities.			Besultul aspair, how has your respector all stated filter users/ stated relatives involved with their issue size, private benefully. That is, which outcomes were common trained in knowledge, at flaudes, belowled, practices, policies, or environmental? I goes to be included bette manufacture (numbers, %, etc.) and qualitative (comments, observations, etc.). What are the benefit or policies benefit is beyond that who participated ince, what we the policie benefits (1-47 paragraphs).	
Action Plan Link this Second Story to one of your Action Plans,				
Keywords				
			External Collaboration, If relevant, that all non-Externical partners, expanisations or community groups that contributed the success/repacts of the custoact collected. If a collaboration of all used with a ULIC categors department, please include the department affiliation.	
Comments				
			Favorite Quote	
Collaborators		200		
User	ACCESS: 3 View only 3	View & edit		
The Was this user involved in performing	the work described in this record	17'		
User	ACCESS: To View early	View & edit		
3 Was this user involved in performing	the work described in this record	17		
User	ACCESS: T View only T	View & edit		

The Was this user involved in performing the work described in this record?



Grant Project Name

Ex: The lawa Callik AAA and Resignant Fortnerships (DO NOT write just the Grant Project Name, Instead include a catchy title of the project so readers know what the project was about)

Principle Investigator (include credentials, title organization)

Ex Alexar dra Bournan, RD, LDN, Division Director of flutrition and Wellness at the lowa Department on Ap. 11 and Director at the National Resource Center on Nutrition & Aging

Authors (include credentials, titles and organizations)

*Keep all fonts and size lonts the same as seen throughout the document.

Date of Report

Ex: July 15, 2022

ACL Disclaimer: "This project was supported, in part by grant number 90xx####, from the Administration. for Community Living, U.S. Department of Health and Human Services, Washington, D.C. 20201. Grantees undertaking projects with government sponsorship are encouraged to express freely their findings and conclusions. Points of view or opinions do not, therefore, necessarily represent official ACL policy."

FORMATTING IMPACT STATEMENTS

- 1 overarching statement vs.
 2+ narrower statements
- Paragraphs or bullets?
- Headings, font formatting
- Visual aids
- Links, contact info



Taking Care of America's Forests

Forests are a critical part of life on Earth. They purify air, filter water, store carbon, provide food and shelter for a diverse array of plants and animals, and produce natural resources like timber, paper and medicine. Forests are also important places for recreation and cultural practices. But forests across the United States are under threat from pests, pathogens, deforestation, climate change, and other stressors. Land-grant university researchers and Extension educators are working to protect forests and the environmental, economic, and social benefits they provide.

Here are a few examples of that work:

- After the 2020 wildfires, many private forest owners in Oregon could not find seedlings or tree planters
 to reforest their property. Extension educators in Oregon have helped about 300 landowners, who need
 over 3.5 million trees, decide how to prepare their sites, select species and planting density, and plan for
 maintenance needs. They have also belped track down available seedlings and place orders.
- In Oregon, many landscapes benefit from occasional prescribed fires that reduce the amount of fuel
 that can feed devastating wildfires. To overcome resistance to and inadequate resources for prescribed
 burns, Extension educators in Oregon helped develop a training that gave forest owners and managers
 the knowledge and tools to implement prescribed burns and a support network to help carry them out.
 After the training, the number of planned prescribed burn acres had increased from only a few hundred
 acres to nearly 10,000 acres.
- Beech leaf disease eventually leads to tree death and should be managed as soon as possible, but
 infected plants are visually identical to uninfected plants in early stages. Researchers in Ohio developed
 a technique that uses near-infrared light, sensors and artificial intelligence models to determine which
 leaves are infected. This technology enables rapid response before outbreaks become severe and costly.

Continued

www.landgrantimpacts.org

ABOUT LANDGRANTIMPACTS.ORG | The Land-grant University System is a uniquely American institution and has operated successfully for more than a century. The website documents the collective and individual impacts of the national system of joint teaching, research, and extension institutions.

Prepared by the National Impacts Database writing team, and supported by the Association of Public and Land-grant Universities' Board on Agriculture Assembly. Some projects funded by USDA/NIFA.

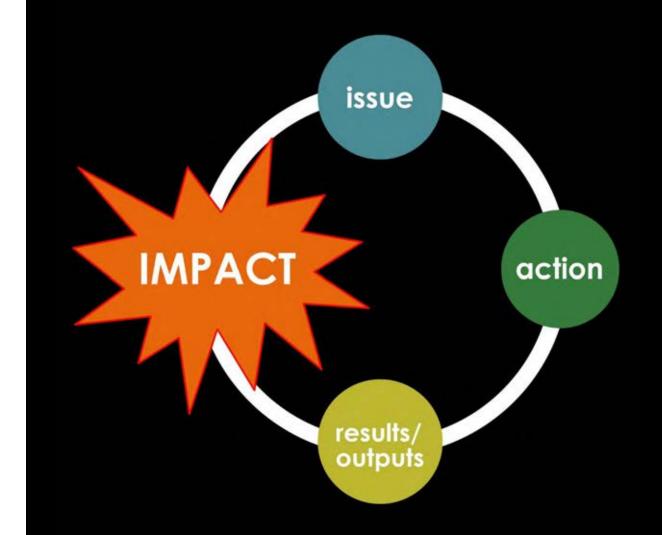




GETTING STARTED

- Outline: keywords, lists
- Connect the dots
- Modify for specific audiences/uses

Research and practice make perfect.



Regardless of style, impact statements should:

- Answer so what, who cares?
- Describe change in knowledge; behavior; condition
- Be concise, engaging, easy to understand
- Provide context to understand and remember







bit.ly/examplesworksheet

Basic Information

- . Project No. and Title: W190: Water Conservation, Competition and Quality in Western Irrigated Agriculture
- Period Covered: 01/01/2002 to 12/01/2002
- . Date of Report: 12/18/2002
- Annual Meeting Dates: 10/01/2002 to 10/05/2002

Participants

Schalble, Glenn (schalble@ers usda gov) Economic research Service, USDA, Taylor, R. (phylor@judaho edu) University of Idaho, Daughetty, Lefkoy (idaugher@mmu edu) New Mexico State University, Gopalaismannan, Chornal (chernal@manal edu) University of Hassal at Manoe, Halfalian, Ray Outfalian@vus edu) Washington State University, State (approach of supalais@uni edu) University of Nebrasik, Werf, Frank (chernal@manal edu) University of Nebrasik, Werf, Frank (prant Cardon@colositate edu) Colorado State University, Franke, Marshall (mitrasier@lamar colositate edu) Colorado State University, Peterson, Jeffrey (peters@ksu.edu) Kansas State University, Hurd, Brian (bithing@msu.edu) New Mexico State University, State, Enchord, State University, Peterson, Jeffrey (peters@ksu.edu) Colorado State University, Enchord, adems@orstedu) Colorado State University, Peterson, Jeffrey (peters@ksu.edu) Colorado State University, Peterson,

Brief Summary of Minutes of Annual Meeting

The meeting was called to order by Chairman Marshall Fras meeting were approved. Chairman Frasier explained the me

The first fern of business was agency reports. Mile OCNell Emphasis was given to a discussion of the CSREES Nation through the Committee for Shared Leadership in Water Goa Administrative Advisor, discussed the new reporting required data development activities in the areas of irrigistion-water and RBM-funded research addressing the economic impact.

Chennal Gopalaktishnen, University of Hawaii at Manoa, re W-190 addressing entitutional perspectives and innovation discussed a broader overview of the ERS/RMA-research pri research efforts for nine Cooperative Agreements between I across W-190 Cooperators on research project objectives.

The Thursday program consisted of three invited presental 190 State Reports, and a business meeting, Invited present Researchic, Raymond J. Sugalla, University of Nebrasia; Technology Adoption: When will at Conserve Waterick, State Integration of FRIS and the 2003 ARMS Phase surveys, burden (NASS acknowledged the W-190). How as a critical

Impacts:

Scientists conducted a series of human subject tests and focus group interviews (4 males (age: 38.8 ±5.4 years; work experience 14.5 ±1.1 years, 23.9 BMI) and 4 females (age: 44 ±5.6 years; work experience 24.3±4.0 years, 33 BMI)) to identify major issues related to wearing protective clothing. Future study will illustrate how gender-specific design needs vary depending on work environment.

Accomplishments

Objective 1: Evaluate the farm-level conomic and environm afternative resource-conserving irrivation technology and water management systems.

Objective 3: Evaluate atternative instrutions and policies for resolving competing agricultural and environmental water demands.

Washington and Idaho examined the ture of the conflict between irrigated agriculture and endangered species policy, potential conflict resolution alternatives, and the role of water conservation policy. Washington, working with a panel of national experts, also a veloped a Master's degree program in water resources management for the U.S. Army Corp of Engineers. Artisona examined the endomined program is administrative or judicial water realized to so to address changing water demands in the West. Artisona has also examined the economic costs of inter-jurisdictional water deputes, and the role of economic incentives in conflict resolution. Nebraska, using bargaining bodies to examine potential solutions to Platte Basin water allocations between Colorado, Nebraska, using bargaining bodies to examine potential solutions to Platte Basin water allocations between Colorado, Nebraska, using bargaining bodies to examine potential solutions to Platte Basin water allocations between Colorado, Nebraska, using bargaining bodies to examine potential solutions to Platte Basin water allocations between Colorado, Nebraska, using bargaining bodies to examine potential solutions to Platte Basin water allocations between Colorado, Nebraska, using bargaining bodies to examine potential solutions to Platte Basin water allocations between the U.S. and Mexico, examined impediments to border inhastructure development. Shuty results demonster in how institutional new and power relationships are critical considerations in evaluating bodies water negotiations. Finally, a major W-190 accomplishment (lead by Chennat Copylationships) and the completion of the Special Issue (March 2003) of the International Journal of Water Resources Development. This second Special Issue will showcase W-190 research contributions addressing institutional powers or in water management.

Impacts

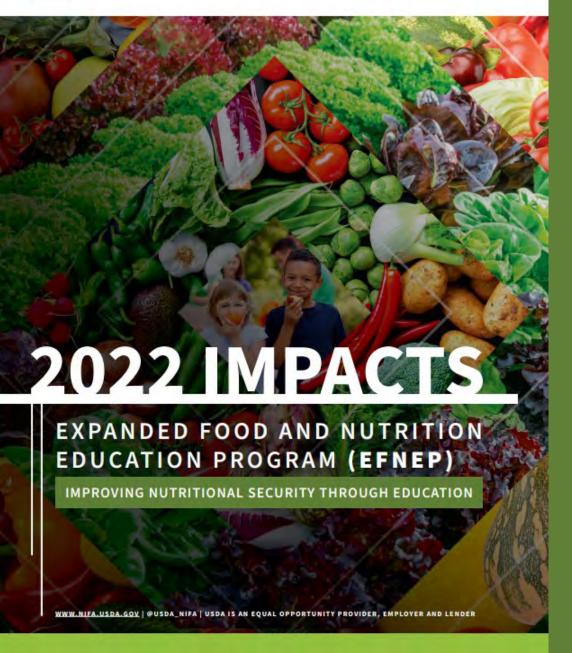
- Using Dfeld days D and Dworkshops D, including the Four Corners Irrigation Workshop, Colorado successfully brought together local, state, and federal agency personnel. Native American representatives, water district managers, academicians, and irrigators from across the four States, broadening awareness and understanding of system-wide irrigation efficiency issues associated with the Dolores Irrigation Project.
- 2. In Kansas, results from intigation technology/income-risk research were used to show producers how intigation investments can be used to limit production risk.
- 3. In Nebraska, Natural Resource Districts are using research results identifying the annualized costs of groundwater quality improvements as they revise groundwater management plans.
- 4. Oregon (Rich Adams), represented on the National Research Council committee on the Cistatus of Endangered Fishes of the Klamath Basin; helped to frame the resource questions in the Basin and in developing long-term water-management options. The NRC interim report (Nat;): Academy Press, 2000) is cited by agencies as the basis for current operating plans.
- ERS research integrating results on impation technology transitions across the Pacific Northwest and the Mis-grains States, demonstrates the importance of recognizing a trood, social/institutional perspective when evaluating entarm water conservation policy options.
- Research results recognizing the Coumulative effects of alternative mechanisms to obtain water for instream flows helped to create the Conservation Reserve Enhancement Program (CREP) in Oregon, which has been instrumental in formulating a national program by the USDA.
- 7. Washington water-management expertise helped to develop a MasterDs degree program in water resources management for the U.S. Army Corp of Engineers.
- NebraskaCs analysis of institutional reallocation of Platte Basin water resources, using bargaining models, has helped state, federal, and private stakeholders recognize the role of technical beliefs versus values in explaining differences in policy preferences and ultimately in contributing to conflict resolution options.
- The Special issue of the LIVIRID, featuring W-190 refereed papers addressing institutional innovations in western water management, contributes enormously to the policy-relevant professional credibility of W-190 research accomplishments.



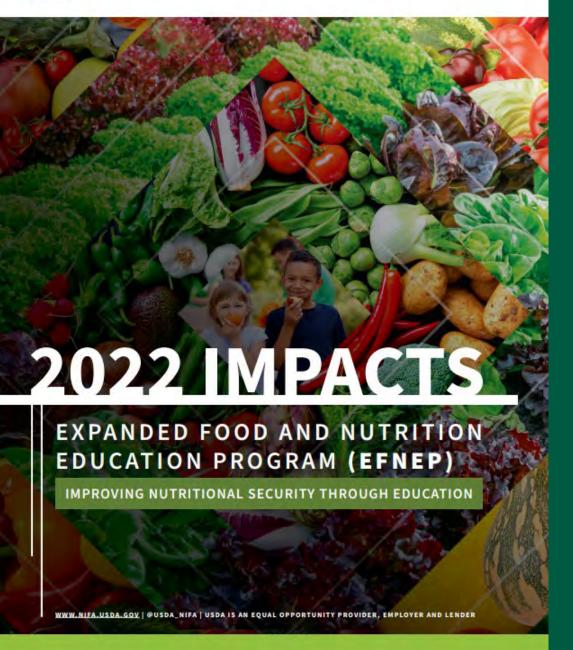
bit.ly/examplesworksheet



USDA NIFA and others want to know if the nutrition interventions they support are actually leading to healthier diets and if they're getting for their buck. But assessing what foods people eat has been difficult because people have a hard time remembering and accurately reporting what they eat. Nutrition and biomedical informatics researchers at the University of Utah addressed this problem by developing a new tool that doesn't rely on people reporting what they eat. Instead, the new tool scans the barcodes of foods families purchase at stores and scores the healthiness of the foods. In a national sample of over 4,000 households, the new tool performed more accurately than conventional diet assessment tools and was easier to use. In the future, nutrition programs can use this tool to track their success.



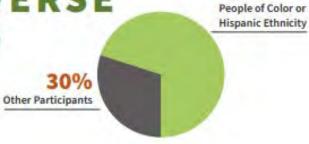
In 2022, youth participation in EFNEP increased. Consistently, over half of EFNEP participants in FY2022 are people of color and/or Hispanic ethnicity. In 2022, NIFA provided \$69.4 million for Land-grant University Cooperative Extension partners to conduct EFNEP in all 50 states, six U.S. territories, and the District of Columbia, EFNEP employed 1,285 educators who worked directly with 187,663 youths, providing tailored lessons on diet quality, food resource management, food safety, and food security.



EFNEP instructors led a six-week course to teach 600 high school students in West Virginia about nutrition, meal planning, cooking skills, and food safety. 75 percent of students showed improved knowledge and skills. One year after the course ended, the mother of one of the students reported that her son now helps plan grocery lists and cook meals at home instead of eating fast food and has a job in the food industry training to be a chef. Over the past year, the family has saved money on food expenses, strengthened their family relationship, and had better health reports at their health check-ups. "I never dreamed how a simple class could change my family's daily life and future so much and help my wallet at the same time," she said.

REACHING DIVERSE POPULATIONS

The majority of EFNEP adults are from historically underserved populations. An increasing trend is programming to refugee and immigrant populations.



SAVING MONEY

EFNEP graduates reported a collective food cost savings of

\$558,446.34

IMPROVING DIETS



94% OF ADULTS

70%

improved their diet, including consuming additional fruits and vegetables.

CHANGING ADULT BEHAVIOR



Percentage of adults improving diet quality practices

INFLUENCING YOUTHS



Percentage of youths increasing knowledge or ability to choose healthy foods

San Juan, Puerto Rico, has a 40% poverty rate. One mother who was on food assistance, enrolled in EFNEP virtually to learn to basic food skills. She had no knowledge of food safety practices, reading nutrition labels or planning meals for her family. She participated in EFNEP through videoconferencing. She also received motivational text messages. Upon completing the program, she said, "I learned to read the nutritional labels and to make a shopping list before going to the supermarket to save on purchases. I learned how to prepare many delicious recipes for my family. I also do the physical activity routine that I learned and have lost 15 pounds."

UNIVERSITY OF PUERTO RICO

A mother of two in Colorado struggled to incorporate vegetables into family meals. Her kids and husband didn't eat the vegetables she served. To save on food costs and minimize food waste, she stopped serving vegetables. Through EFNEP classes she learned to be creative. She included vegetables as part of dishes the family already enjoyed eating and was able to improve their diets.

COLORADO STATE UNIVERSITY

In collaboration with a high school that received Farm to School funding, Oregon EFNEP educators conducted a series of cooking classes. Students tried new foods and were excited to share the recipes with other classmates and family members. One student was surprised to find a dessert recipe that also included a vegetable: "I never thought of doing that, and I didn't think I liked squash at all."

OREGON STATE UNIVERSITY

For more information, visit NIFA.USDA.GOV/EFNEP or contact helen.chipman@usda.gov or carinthia.cherry@usda.gov.

WWW.NIFA.USDA.GOV | USDA IS AN EQUAL OPPORTUNITY PROVIDER, EMPLOYER AND LENDER | 02/23

The specialty crop industry faces serious pest/disease issues, labor shortages, and growing demand. Automated, mechanical devices can help address these issues, but crops like fruits and nuts require unique technologies. Many institutions do not have the resources to create these technologies alone. Working together, researchers at land-grant universities have developed automated devices that help:

IMPROVE CROP YIELD/QUALITY & MEET DEMAND:

- A harvest-assist device designed by Penn State scientists increases the number of apples harvested per second by 50%.
- University of California developed an affordable automated system that identifies mature tomatoes during processing, ensuring products have good flavor and lycopene.
- Farmers said a new mechanized pruning method recommended by Penn State increased yields by 40% for an additional \$400 per acre.

REDUCE WORKER INJURIES:

- 60% of the tomato processing industry has adopted machines designed by University of California
 to inspect tomato juice. During a single season, the machines eliminate more than 200,000
 repetitive motion hazards for workers.
- Penn State researchers designed a harvest-assist device that eliminated ladder falls and reduced the time apple pickers spent in awkward, dangerous postures by 50%.

CONSERVE RESOURCES:

 Using automated dehumidifiers developed by the University of Hawaii, coffee and chocolate growers use less energy to dry product.

Funding: Hatch Multistate/USDA NIFA Learn more: www.W3009.com









Farming is a hazardous occupation, but mechanization can prevent many manual labor injuries. Machines designed by <u>@ucdavisCAES</u> to inspect tomato juice eliminate ~200,000 repetitive motion injuries each year. 60% of the industry has adopted these machines.

Learn more: http://bit.ly/MRF-Automation

#FarmSafety #NFSHW #necasag



THIS USDA GRANT IS ABOUT MORE THAN JUST EATING FRUITS & VEGGIES.

WE ARE CREATING A HEALTHIER WORLD.

Young adulthood often involves big changes in living and social situations and declines in healthy behaviors. For example, many young adults live on college campuses, where there may be limited access to healthy foods and physical activity as well as high stress and peer pressure. Researchers at West Virginia University, the University of Tennessee, and Kansas State University developed the "Get FRUVED" program to help campuses support healthy habits among their students. The program starts with an assessment that measures campus food access and availability in vending machines, convenience stores, dining halls, and restaurants; walkability; bike-ability; recreation facilities and programs; and health-related policies. Then, researchers offer specific suggestions for campus improvements and provide online programming that teaches students about healthy habits for nutrition, physical activity, sleep, and stress management. So far, 90 college campuses have used the Get FRUVED program to identify campus needs and make changes that promote health. Get FRUVED led to increased fruit and vegetable intake among student participants as well as decreased waist circumference, systolic blood pressure, blood cholesterol, and body mass index. These kinds of reductions during young adulthood can significantly reduce the likelihood of chronic disease development over a lifetime. Learn more about the Get FRUVED program: bit.ly/HealthyYoungAdults

Nitrate is a key ingredient in fertilizers used by farmers, but without proper interventions, excess nitrate often drains off farmland and pollutes bodies of water. In the Midwest, excess nitrate often ends up in the Mississippi River and makes its way to the Gulf of Mexico, where it creates a "dead zone" and impairs fisheries. But thanks to a project funded by the USDA, over 300,000 pounds of nitrate have been kept out of the Gulf of Mexico since 2017. As part of this project, land-grant universities in 12 states along the Mississippi River have worked together to address drainage issues in a variety of complimentary ways. For example, University of Illinois scientists designed bioreactors that can be installed on farmland and filter 90% of nitrate from drainage water; Mississippi State University Extension developed an app that 32 farmers have used so far to fine tune bioreactor placement. Scientists at the University of Tennessee identified cover crops that reduce nitrate runoff by 40%. Altogether, these drainage improvements have contributed to the lower-than-average nitrate loads in the Gulf of Mexico in recent years and healthier fisheries.

Project funding: Hatch Multistate/USDA NIFA, 2015-2020 States involved: AR, IA, IL, IN, LA, KY, MN, MO, MS, OH, TN, WI Learn more: bit.ly/drainage





Want to LEARN MORE and STAY IN TOUCH?

