One out of every four Alabamians (1.2 million residents) participated in an Extension program last year. Extension programs enhance Alabama’s economy and quality of life.

**Agriculture**

**Poultry House Lighting**
With more than 12,000 poultry houses in the state, increased electrical efficiency result in increased producer profits. Extension specialists and Experiment Station scientists created LED-lighting systems designed to perform in the rigorous conditions of a poultry facility. The new lighting system offers savings of $1,250 per poultry house, or $15 million for Alabama poultry producers.  

1:175 ROI

**Cattle Grazing Management**
Thanks to a series of Grazing Management Clinics, northern Alabama beef producers managed 19,635 acres more intensively. At a reported return of $51.42 per acre, the Grazing Management Clinics helped attendees earn $946,017 more than their past management practices.  

1:135 ROI

**Rainwater Harvesting**
The National Poultry Technology Center has created a rainwater harvesting system for poultry houses. One demonstration system has been built. It collects 100,000 gallons of rainwater from 4-40’x500’ houses in a military grade storage bladder. A one inch rain event collects $500 in water, with an estimated annual savings per house per year of $4000. The project demonstrates payback of investment in 5.2 years while reducing the pressure to expand public water systems.

**Families**

**Divorce**
The divorce rate in Alabama has dropped faster than other states, falling from 10th in the nation in 2003 to 21st in 2013. One of the contributing factors are the Extension divorce prevention programs. In Alabama, each divorce costs $14,000 in family costs, and $18,000 in governmental costs (CDC data). The value of 6,354 fewer divorces in 2013 is $202,328,000 to the Alabama economy. Extension invested $750,200 in staff and programming over the 11 years of the program.

1:271 ROI

**EFNEP**
Better health reduces life-long health care costs, less absenteeism from work, and less dependence on emergency food assistance. The EFNEP program offers programs to improve the health and well-being of 18,000 residents from low income families. National studies confirm that $1 spent on adult EFNEP programs produce a benefit of $10.96.

1:11 ROI

**Workforce Development**

**International Paper Mill Closure**
When the International Paper mill closed in Courtland, AL, the economic shock waves that washed across the six county area resulting in a loss of 4,954 jobs and $313 million in labor income. Extension sponsored employability skills training for employees. 70% of the participants obtained alternative jobs in the region. 85 people were hired at one job fair, saving the State of Alabama $585,650 in unemployment benefits not paid.

1:28 ROI
Help Alabama kids succeed in their boldest dreams for tomorrow.

4-H Grows **CURIOSITY**
101,084 **KIDS IN**
4-H events & activities

4-H Grows **GOOD CITIZENS**
37,591 **KIDS IN**
1,863 4-H Clubs

4-H Grows **CONFIDENCE**
138,675 **KIDS**
reached through 4-H

4-H Grows **LEADERS**
6,000 **YOUNG PEOPLE IN**
leadership roles at the club, county, and state levels

4-H Grows **SCIENTISTS**
3,212 **KIDS IN**
STEM initiatives in 22 counties

4-H Grows **GENEROSITY**
1,600 **DIRECT 4-H VOLUNTEERS**
14,361 resource volunteers

4-H Grows **INNOVATION**
1,071 **ENGINEERING DESIGN PROTOTYPES**
built by youth teams

4-H Grows **THE FUTURE**
4-H present in more than 50% of Alabama schools
Automatic Versus IPM Applications: Entomologists and Plant Pathologists, with support from commodity check-off groups, have initiated on-farm and large scale replicated trials comparing the practice of “automatic” insecticide and fungicide applications with those based on IPM monitoring and decision thresholds. In 2015, most sites confirmed the historical value of IPM-based decision systems. This work will continue for three years but has also confirmed the controversy of product sales driven applications in row crop production today.

New herbicide resistant Palmer amaranth populations noted: Populations in at least four row crop counties in the Arkansas Delta were discovered in 2015 to be resistant to PPO (Protoporphyrinogen oxidase inhibitors) http://www.uaex.edu/media-resources/news/august2015/08-07-2015-Ark-PPO-resistant.aspx herbicides, commonly used in the state to battle glyphosate-resistant Palmer amaranth. Intense monitoring of additional counties will be undertaken in eastern Arkansas during 2016 but it appears that herbicides with this mode of action will be another victim of herbicide resistance in this important weed species. This further complicates our herbicide resistance management strategies.

Kudzu bug was noted on soybean for the first time during 2015 in Northeast Arkansas. A new monitoring and education project, partially funded by the soybean check-off, will teach growers how to effectively manage this insect without “over-reacting”.

Extension personnel have fully engaged growers and consultants in a new effort “Surviving Tough Times in Row Crop Agriculture” in response to lower crop prices and continuing high input costs. More than 60 meetings and other events were held from January through March to educate stakeholders on best management practices that can save money without costing yield and quality. Positive response from growers and consultants has been overwhelming, with comments like “there has never been a time when unbiased, research-based information was more needed by farmers than today. We are really going thru tough times”.

Gardening and landscaping continue to be of strong interest. During 2015, the Master Gardener program certified 3,200 volunteers who logged 154,537 volunteer hours for communities. The "In the Garden Blog" by Janet Carson has grown to 1953 regular followers and 309 articles published during 2015. This group led efforts to highlight research-based gardening at the annual Arkansas Flower and Garden Show in February 2016 with more than 10,000 attending.
County Programs

The County Funding Plan that was launched on July 1, 2015 has been a success. New revenue from counties was received this year. Counties are expected by January 1, 2017 to contribute more than $1.5 million in additional revenue.

An improved County Performance Evaluation Instrument is almost complete. County agents will be trained on its use this summer.

4-H Youth Development

4-H Citizenship/Leadership: Arkansas 4-H leadership programs develop skills and provide opportunities for youth to apply skills learned to improve their communities. Youth and adult partnerships are facilitated to tackle locally-identified needs across the state. In 2015, 4,238 youth from 42 counties participated in citizenship educational activities throughout the state. The 4-H Day at the Capitol had 434 youth participating in legislative functions alongside their state representatives and senators; 459 community service activities were conducted throughout the state by 4-H members. During the 4-H One Day of Service (state service learning program), counties conducted community service projects with 1,110 4-H participants; 3,500 hours donated; hours of time donated valued at $74,760.00; 6,163 people directly reached.

Healthy Living: 4-H Healthy Living programs engage youth and their families in hands-on opportunities to enhance physical, social, and emotional well-being. The approach includes promoting healthy eating habits, physical fitness, the capacity to recognize and direct emotions, and the ability to develop and maintain positive social interactions and relationships. Healthy living programs center on 4-H Yoga for Kids and Healthy Lifestyle Choices. These programs help youth develop an awareness and positive attitude about healthy living while increasing their knowledge and skills. More than 59,000 Arkansas youth were reached in 2015. Surveys of the 3,000 youth involved in 4-H Healthy Living programs showed 85% increased knowledge of healthy food choices; 77% improved eating habits; 71% reported healthy physical activity habits; 83% had positive attitudes toward physical activity; 34% changed practices as a result of 4-H healthy living programs; and 72% shared what they learned with their families.

4-H Science: The 4-H Science program is our largest educational initiative area offered. The science projects made up 237,456 youth participants throughout the program year. County Extension staff reported 9,338 youth participated in 4-H science programs. Of those, 1,179 were involved in robotics, electricity or GPS programs. Animal science educational programs represent the largest enrollment and reached 110,247 youth contacts. Nearly 2,000 youth participated in public speaking, demonstration, tours, judging, and/or exhibition through the animal and poultry project areas, and 600 agriculture-related programs were conducted at the county level for 4,722 youth participants.

Family and Consumer Sciences

Improving Access to Healthy Foods and Physical Activity: FCS faculty and county staff implemented two research projects to help local communities in four counties and faith organizations in five counties make policy, systems and the environmental (PSE) changes that will improve access to healthier foods and beverages and increase physical activity. In the CDC-funded Arkansas Healthy LIFE project (Lifestyles Involving Food and Exercise), needs assessments are currently in process and program staff is providing training and technical assistance to county staff and local coalitions. The RNECE-funded Faithful Families Eating Smart and Moving More project will test using faith community-appointed lay leaders and either EFNEP program assistants or trained Wellness Ambassador volunteers to elicit PSE changes in low-income faith communities.
University of Florida

- President Kent Fuchs just completed his first year in office. During his investiture ceremony address last December, Dr. Fuchs mentioned several times how much he values Cooperative Extension as a part of our land-grant institution. (Very heartening to those of us in Extension!). He likes to say that the Land Grant mission belongs not just to IFAS, but the whole university.
- Dr. Fuchs created a task force to set goals for the entire university. Goal 5 (of 7) specifically targets the university’s outreach mission which is a new realm for UF.
- IFAS Extension’s initiative to engage the total university in our outreach mission is progressing in areas like Engineering, Health Sciences, Design/Construction/Planning, Health & Human Performance, Business, Law, and Arts. We are calling this effort "UF Total Engagement."
- The University of Florida is embarking upon a strategy to engage at a higher level with the community around campus. This strategy includes making the greatest use of the 2000+ acres of the UF campus as well as integrating broadly with the community of Gainesville, e.g., housing, dining, and shopping options, joint ventures with companies, and strengthening the overall area.

IFAS

- UF/IFAS Research and Extension fared well in the 2016 Florida legislative session. IFAS submitted a budget request for $3.5 million of new, recurring funding based on our “workload” formula. The legislature raised this number to $4 million and added funding for several special projects including funds to complete our on-campus Beef Teaching Unit.
- We have hired numerous new (mostly state-level) faculty using our 2015 workload funding of $5.5 million. A highlight for extension is the creation of five new Water Resource Regional Specialized Agent positions. We have hired the first three of these RSAs and the last two are currently in advertisement.
- Beginning July 1, IFAS will institute an indirect cost of 12% for grower or producer organizations and their supporting associations or foundations that sponsor projects. These organizations have been previously exempt from IDC charges. The 12% rate is a pass-through to the university in our current budget model, meaning that IFAS will receive no IDC for projects in these categories. However, this charge will cover the IDC that has been paid to UF from IFAS to cover the costs of doing this work.

IFAS Extension

- Our statewide 4-H program underwent a USDA/NIFA Civil Rights compliance audit in March 2015. Both UF and FAMU participated. This past March we received the review team’s 79-page report that contained a plethora of recommendations pertaining to assurance of non-discrimination, data collection, outreach efforts, documentation, consideration of disabled and non-English-speaking populations as
IFAS Extension (continued)

well as hiring practices among our 4-H workforce. One of the biggest issues to work on will be to ensure higher numbers of limited resource audiences in our in-depth youth development opportunities, e.g., clubs and camps. Our response back to USDA is due later this summer.

- We have two new District Extension Directors following the retirements of Charlie Vavrina and Joe Schaefer. We hired Ms. Brenda Rogers in the South Central District and Ms. (soon to be Dr.) Anita Neal in the South District. We opened up both of these recruitments to include our “Extension Agent IV” faculty level in addition to the Professor level. Both Brenda and Anita are coming in as Agent IV.

- We are implementing our Extension Strategic Staffing Plan. In addition to the five Water RSA positions mentioned above, we have hired three State Specialized Agents, including our Statewide Master Gardener Coordinator and two SSAs in the State 4-H Office. Some of the 2016 workload funds mentioned above are due to be invested in faculty with particular emphasis on new extension positions, especially Regional and State Specialized Agents. We have compiled a list of extension faculty needs across the state to use in creating new positions.

- In order to replace one of our most popular 4-H camps in central Florida, we are looking into ways that we can meet current and future camping needs. An opportunity that seems to hold promise is a potential partnership with the FFA Leadership Training Center in Haines City, FL. If this comes together it would be under the umbrella of our new IFAS Leadership Center, and it would aim to meet the needs of both 4-H and FFA.

- We have started implementing our Revenue Enhancement plan. The initial effort involves establishing UF cash and gift bank accounts in every county extension office. Our goal is to make every county extension office act as a mini-business unit of IFAS. Many of our county faculty now have university purchasing cards that are attached to their local UF bank accounts. One advantage of using the purchasing card is that state sales tax (6%) is not charged on purchases. We are also working with the university to expand the use of e-commerce in Extension. Our first use of e-commerce will be to collect our newly-implemented state 4-H membership fee with several other options to follow for Extension in a broader sense.

- Based on a comprehensive strategic plan and logic model developed by an Urban Extension Task Force, we are setting out to raise the connectedness and value of our work with urban constituents. Initially, we are in the process of beginning a statewide needs assessment to determine areas of greatest need; we will then develop strategies for reaching urban audiences that align closely with our mission.
Highlights of the College:
The most exciting news is that Dean Sam Pardue joined our College as of March 14, 2016. He is a Poultry Scientist and comes to us from North Carolina State University where he was most recently the Associate Dean for Academic Programs in the College of Agricultural & Life Sciences.

Budget/Funding:
Our Legislative Session ended on March 24, 2016 and we are waiting for the Governor to sign the budget. If he signs the budget with no changes, it will be one of the best budget years in recent history. The College of Agricultural & Environmental Sciences received the following line-item additions:

- Funding for the state portion of 12 additional County Extension Agent Positions
- Grain Crop Agronomist (E/R)
- Vegetable Pathologist focusing on Nematodes (E/R)
- Viticulturist (E/R)
- Beef & Dairy Ruminant Nutritionist (R/T)
- Crop Physiologist (R/E)
- $5M bond funds for Cabins at Rock Eagle 4-H Center
- $5M for Renovations & Repairs & Equipment at the Experiment Stations
- 3% raise pool on state funds

In addition, the University returned a portion of the salary increases Extension and Experiment Stations had to pay in FY16 (~$1.4M). Three years of raises (4%, 5% and 3%) after 5 years of no raises is helping with morale and salary compression, but we still struggle to be competitive in salaries to hold onto employees.

As of July 2015, UGA will no longer hire Extension Agents into Public Service Faculty positions without a Master’s degree. We can hire Bachelor degrees in a provisional status and the employee has 6 years to obtain a Master’s. The starting pay differential is steep ($34,500 vs. $40,400). We struggle to find Master’s level candidates, particularly in the row crop and urban areas.
**Personnel Changes:**
Mark McCann became the Assistant Dean for Extension and ANR Program Leader in October. His wife Julia will join the Animal & Dairy Science Faculty in August 2016. We have filled the Cotton Agronomist position as well as the Poultry Science Department Head and the Entomology Department Head and an Urban Program Development Coordinator. In 4-H, we filled the Volunteer Specialist position and the Grant Coordinator position and are currently advertising for an Associate State 4-H Leader. We are in the process of hiring a Cotton Economist, Livestock Economist and Crop Economist as well as a Fruit Entomologist shared with Clemson. Finally, we are interviewing for a Poultry Processing Specialist, a Regional Crop Agronomist and the Plant Pathology Department Head.

**Program Focus:**
In the Agriculture & Natural Resources area, the strength of our local network is being recognized and utilized by many state and federal partners to spread education quickly and efficiently. Our local agents have delivered information on Avian Influenza, Zika virus and Pesticide Drift Education. In the past two years, 1499 people received “Using Pesticides Wisely” training delivered by UGA Extension personnel and supported by the Department of Agriculture. As a result of these trainings, during the same time frame, drift complaints to Extension and the Department of Agriculture decreased by half.

In 4-H, we continue to maintain a strong presence in schools and work to maintain and enhance our relationship with the Public & Private School Systems. We are working to increase our work force by recruiting and utilizing volunteers in positions of more responsibility. The AmeriCorps VISTA and the AmeriCorps State programs continue to enhance what we do in GA 4-H by increasing our capacity and expanding our workforce.

Grant funding is helping us expand our Family & Consumer Science programming across GA and particularly in the urban area. EFNEP & SNAP Ed are allowing us to enhance our nutrition programming and we recently received an $8.2M grant in Family & Consumer Science that will work to promote healthy and stable marriages. This program will be delivered locally in 15 counties in GA.

**Other:**
The 2016 Extension Conference in January focused on the “Scholarship of Extension’ and we are working system-wide to be more intentional in closing the loop and sharing the discoveries we find. Teams of agents and Specialists are working to carry out applied research and share that work in a scholarly way.

In February, the University of Georgia College of Agricultural & Environmental Sciences hosted the Southeastern Women’s Agricultural Leadership Summit. Krysta Harden, South Georgia native and then Deputy Secretary of Agriculture was the featured speaker along with a panel of experts. Delegates representing 13 southern states as well as the District of Columbia were represented and generated information on the subject that is in the process of being analyzed and shared. Thank you all so much for promoting this in your state and helping us get the diversity of participants that made this conference a huge success.
**University of Kentucky Cooperative Extension Update for**
**ASRED/AEA/AES Joint Meeting**
**April 25 - 28, 2016**
**St. Thomas, U.S. Virgin Islands**

**UK Cooperative Extension Homepage**

**Significant Activities**

*Defining Strategic Initiatives for UK Cooperative Extension and the County Plan of Work*

Since the summer of 2015, UK CES has been redefining and clarifying the existing programmatic initiatives in Cooperative Extension. These initiatives are the broad programs defining the scope of work for the College Extension faculty and staff. Program leaders in ANR, 4-H, FCS and CED were charged with identifying the major efforts within their areas, to build teams of specialists and agents, and to identify the major programs or objectives under each initiative including possible evaluation questions. The current list of initiatives, teams and evaluation questions is attached.

These initiatives will be used by agents to compile their plan of work starting April 1. Although the initiative framework continues to be refined and augmented, this effort has engaged campus specialists and the CES administrative leaders more actively than at any time in the recent past. This effort, a focus on greater accountability for program impact and pending budget cuts has increased the opportunity for dialogue with department chairs and extension faculty.

State program leaders identified cross-cutting areas of work by comparing initiatives targeted at the farm, family, youth or community level. Interdisciplinary teams have been established around the following multi-discipline topics:

- Developing local food systems
- Empowering Leadership (for clientele)
- Strong, Economic Health (at the individual, family and community levels)
- Environment (Sustaining Environmental Quality)
- Health (including healthy lifestyle choices)

Teams working in these areas have met to look for the integration opportunities. We have learned that this integration is unique to the topic and the group of leaders within each discipline. We will share more as we learn how this works, and what logical endpoints are.

*Cooperative Extension Participates in College Strategic Planning Process*

Cooperative Extension helped the UK College of Agriculture, Food and Environment conduct facilitated input gathering sessions across the state in a comprehensive strategic planning process. Sessions with broad clientele involvement were conducted across the state as well as with the State Extension Advisory Council. Preliminary reports show strong engagement of clientele and staff in charting the future of the college. The details on the plan are available at [http://strategicplan.ca.uky.edu/](http://strategicplan.ca.uky.edu/)
Cooperative Extension Participates in College Strategic Planning Process Continued

Several goals and sub-goals of the College strategic plan align well with existing CES objectives and efforts, including reaching out to underserved audiences, improving and increasing resources in other languages, better serving the urban clientele, and refining and improving the connections between our clientele and the full mission of the college – Research, Teaching and Extension.

CES launches new Extension faculty/specialist orientation
Extension faculty on the College Faculty Council recommended that a specific development process be designed for new Extension faculty and specialists in the college. This effort would be more focused and more in-depth than the general Promotion and Tenure workshop already conducted by the College Faculty Council. The new onboarding process was designed by newly tenured Extension faculty, representatives from the College Council and CES administration. The first session occurred in March 2016. Further sessions are planned.

Budget/Funding/Legislative

The legislature is in the final stages of budget development with the central issue being funding for higher education. The Governor’s proposed budget in January called for an immediate reduction of funding for higher education of 4.5% in the current year, and 9% in each of the coming years of the biennium. These drastic measures were in response to grossly underfunded pension programs both for teachers and state employees. Cooperative Extension employees do not participate in these pension plans, nor do any UK employees.

The Senate’s budget was similar to the Governor’s budget, while the Democratic House kept higher education funding flat. Currently the budget is in conference. Some budget reduction is expected in each of the coming fiscal years. There is disagreement between the Governor and the Attorney General on the legality of a mid-year budget reduction when the state budget was not anticipating a deficit.

These budget discussions are the most contentious in several years.

One bright spot was the inclusion in the Governor’s budget of the Grain Crops Center of Excellence at the UK Research and Education Center in western Kentucky. Funding for this project will require the passing of a budget, which is far from certain at present.

Administrative/Policy/Staffing

College-Retirements and Staffing Changes
The retirements of Louise Moore, Karen Ramage and Charlene Jacobs will be final by the end of 2016. Taken together, this group will account for over 100 years of Extension service by the time their retirements are official.

Louise Moore served in several roles over her career, from FCS agent to Nutrition Specialist. She ended her career as a District Director in southeast Kentucky.

Similarly, Karen Ramage began as a FCS agent, transitioned to District Director and will finish her career as Director of County Operations Emeritus. Karen led UK CES through the process of compliance of all 120 counties as Special Purpose Governmental Entities of the Department of Local Government as well as several other initiatives.

Charlene Jacobs also began her career as an FCS agent, served as a Area Program Director (middle manager) and Regional Program Coordinator, and will end her career as Assistant Director for 4-H Youth Development once the
next program leader begins. Under her leadership, 4-H made several management and leadership advances in the unit and especially at 4-H camps.

New Hires

Director of County Operations: Dr. Jeff Young was named as Director of County Operations effective early 2016, following Karen Ramage who stayed on in a post-retirement role to assist in the transition. Jeff has served as 4-H and as the Extension Director for the Louisville/Northern Kentucky district.

Extension Director for Southeast Kentucky (District 2): Daniel Wilson was identified as the director of Extension District 2, following the retirement of Louise Moore. Immediately prior to this promotion, Daniel served as the county agent for Agriculture and Natural Resources in Wolfe County (in Eastern Kentucky). He has served in several other leadership roles, most recently as president of the state ag agent’s association.

Extension Director for Louisville/Northern Kentucky (District 2): Willie Howard, 4-H agent in Louisville/Jefferson Co., was identified as the new director for Extension District 3 after a national search. Willie has served as 4-H agent in rural and urban counties, and was identified after a national search. Willie begins this role on May 1.
<table>
<thead>
<tr>
<th>4-H Initiative</th>
<th>Program</th>
<th>Program Indicator</th>
</tr>
</thead>
</table>
| Empowering youth to reach their full potential to succeed in today’s global society | 4-H Youth Development Programming | • Number of youth who indicated they know how to use information they are given to make decisions  
• Number of youth who can comfortably talk to others about their thoughts and feelings  
• Number of youth who indicate they are connected to caring adults who are interested in their success  
• Number of youth who apply the skills learned in 4-H and in other activities at home, school or in the community  
• Number of youth who reported that they can set and accomplish a goal |
| Creating awareness of the impact of agriculture on daily life and developing marketable skills for the future | Agriculture 4-H Core Curriculum | • Number of youth who demonstrate a skill that was learned and/or improved by participating in a 4-H ANR project, program, event or activity  
• Number of youth that can keep production, performance or financial records on their 4-H agriculture projects  
• Number of youth who understands the role of agriculture in the production of food and fiber |
| Enhancing communication skills through public speaking and expressive arts | Communications and Expressive Arts 4-H Core Curriculum | • Number of youth that have improved their communication skills  
• Number of youth that can express themselves through the arts  
• Number of youth that have confidence speaking in front of groups |
| Acquiring basic life skills in family and consumer sciences | Family and Consumer Sciences 4-H Core Curriculum | • Number of youth who reported that they followed instructions step-by-step to do or make things themselves  
• Number of youth who reported that they followed safe practices  
• Number of youth who reported that they demonstrated what they learned to do for themselves |
| Developing leadership and volunteer skills for engagement with community, country and the world | Leadership 4-H Core Curriculum | • Number of youth who indicate they listen to people who have different ideas  
• Number of youth who indicate they can finish a job they started  
• Number of youth who indicate they can take responsibility for their actions  
• Number of youth provided with diversity focused education  
• Number of 4-H members leading a project group or project club  
• Number of 4-H members serving as direct mentors to younger youth |
| Adopting healthy lifestyle choices for overall well-being | Health 4-H Core Curriculum | • Number of youth that report making healthy lifestyle choices  
• Number of youth that report not engaging in risky behavior  
• Number of youth that report feeling good about themselves  
• Number of youth that report that they know how to handle stress |
| Practicing stewardship in natural resources | Natural Resources 4-H Core Curriculum | • Number of youth who use their skills to conserve natural resources  
• Number of youth who can identify the natural resources in their community  
• Number of youth who have gained an understanding of the ecosystems in nature  
• Number of youth who have engaged in a community project related to natural resource conservation |
| Engaging in discovery, exploration, and understanding in science, engineering and technology | Science, Engineering and Technology 4-H Core Curriculum | • Number of youth who use knowledge and skills developed from 4-H science, engineering and technology programs in daily life  
• Number of youth who follow scientific methods when making decisions  
• Number of youth who do SET activities outside of school  
• Number of youth who create a display or object related to SET and can explain what they have learned |
<table>
<thead>
<tr>
<th>ANR Initiative</th>
<th>Major Program (s)</th>
<th>Program Indicator</th>
</tr>
</thead>
</table>
| **Addressing Water Issues**       | Backyard Streaming           | • Number of individuals who planned to apply what they learned from this program to address water issues  
• Number of individuals who applied what they learned from this program to address water issues  
• Number of individuals who planned to implement at least one best practice to protect stream banks and stream buffer zones  
• Number of individuals who reported implementing at least one best practice to protect stream banks and stream buffer zones  
• Number of those who planted native species in their stream buffer zones after participating in this program  
• Number of those who shared information from this program with at least one other individual  
• Number of those who reported going beyond the program to learn more about best practices to protect and/or conserve water resource |
| **Ag Water Quality Program**      |                              | • Number of landowners who made plans to develop or update an ag water quality plan as a result of this program  
• Number of landowners who developed or updated an ag water quality plan as a result of this program  
• Number of producers with plans to develop and implement a nutrient management plan  
• Number of producers that developed and implemented a nutrient management plan  
• Number of landowners planning to implement one or more new best practices for soil conservation as a result of Extension programming  
• Number of landowners who implemented one or more new best practices for soil conservation as a result of Extension programming  
• Number of landowners who plan on implementing one or more new best practices for improving water quality  
• Number of landowners who implemented one or more new best practices for improving water quality |
<p>| <strong>Urban Environments (water issues)</strong> |                              | • Number of individuals who plan to engage in decision-making activities and actions that affect water quality |</p>
<table>
<thead>
<tr>
<th>Category</th>
<th>Segment</th>
<th>Indicators</th>
</tr>
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</table>
| Promoting Commodities | Livestock | - Number of producers who reported improved record keeping practices as a result of Extension programs  
- Number of producers reporting changed or improved pasture management practices  
- Number of producers who reported saving money or reducing cost of operation  
- Number of producers who now practice efficient reproduction techniques |
| Forage Systems | | - Number of producers who reported improved record keeping practices as a result of Extension programs  
- Number of producers reporting changed or improved pasture management practices  
- Number of producers who reported saving money or reducing cost of operation |
| ANR Local Food Systems | Local Food Systems | - Number of producers who can accurately identify agricultural food products that extend beyond the growing season  
- Number of producers reporting more confidence in marketing/selling food products  
- Number of producers who were successful in marketing/selling food products  
- Number of residents reporting an increase in accessing fresh, local foods  
- Number of residents indicating a willingness to support local food markets as a result of awareness raised through Extension programming  
- Number of producers who were encouraged by Extension programming to seek additional training on food safety (FAP, FSMA, etc.)  
- Number of producers who were successfully trained by Extension on food safety (GAP or FSMA) |
<table>
<thead>
<tr>
<th>Home &amp; Consumer Horticulture/Master Gardener</th>
<th>Home &amp; Consumer Horticulture</th>
<th>Number of participants engaged in home and consumer horticulture programming</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Gardener</td>
<td>Master Gardener</td>
<td>Number of master gardeners that have completed certification and were active volunteers in the county during the past year</td>
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<tr>
<td></td>
<td></td>
<td>Number of Master Gardeners that have served as volunteers for one (1) year or less</td>
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<td></td>
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<td>Number of volunteer service hours completed by Extension Master Gardener Volunteers in the county</td>
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<td>Number of continuing education hours completed by Master Gardener volunteers</td>
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<td></td>
<td></td>
<td>Number of direct contacts made by Master Gardener volunteers</td>
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<tr>
<td></td>
<td></td>
<td>Number of indirect contacts made by Master Gardener volunteers</td>
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<tr>
<td></td>
<td></td>
<td>Number of Master Gardener volunteers who increased their knowledge of home horticultural practices</td>
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<tr>
<td></td>
<td></td>
<td>Number of Master Gardener volunteers who adopted 2 or more practices from Master Gardener training into their own garden/landscape</td>
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<tr>
<td></td>
<td></td>
<td>Number of Master Gardener volunteers who developed more confidence in teaching subject matter related to horticulture</td>
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<tr>
<td></td>
<td></td>
<td>Number of Master Gardener volunteers who developed confidence in addressing the needs of clientele (walk-ins, phone calls, emails, etc.)</td>
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<tr>
<td></td>
<td></td>
<td>Number of Master Gardener volunteers who became aware of Extension’s role in addressing the needs of local residents</td>
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<td></td>
<td></td>
<td>Number of Master Gardener volunteers who saw their services as a reliable source of home horticulture information in the county</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of Master Gardener volunteers who learned how to work more effectively with people</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of Master Gardener volunteers who believe their efforts helped extend the outreach of the Kentucky Cooperative Extension Service</td>
</tr>
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<td></td>
<td></td>
<td>Number of Master Gardener volunteers who believes the Master Gardener program greatly improves the Kentucky Cooperative Extension Service’s connection to the local community</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Number of master gardener volunteers who believe they developed skills they can use in other areas of their lives</td>
</tr>
</tbody>
</table>

| Chemical Management | Pesticide Safety – Plant Pests | Number of producers who plan to complete the Kentucky Pesticide Applicator Training |
| Chemical Crop Management Tools | Number of producers who successfully completed Kentucky Pesticide Applicator Training  
Number of producers who plan to train workers in worker protection standards (WPS)  
Number of producers who trained workers in worker protection standards (WPS)  
Number of producers who plan on making changes to their farm’s chemical handling, storage and disposal practices  
Number of producers who changed aspects of their farm’s chemical handling, storage, and disposal practices  
Number of producers with plans to communicate with neighbors around their farm about pesticide sensitive areas  
Number of producers who communicated with neighbors/users of pesticide-sensitive areas around their farm  
Number of producers who plan to improve spray application record-keeping (including the posting of signage) as a result of participating in this program  
Number of producers who improved spray application recordkeeping, including posting signage  
Number of producers who plan to update farm spraying to reduce risks of developing resistance as a result of participating in this program  
Number of producers who updated their farm’s spray program to reduce risk of developing resistance  
Number of producers who plan to calibrated their sprayer  
Number of producers who calibrated their sprayer  
Number of producers who plan to reevaluate nozzles, spray pressure or boom height as a result of participating in this program  
Number of producers who reevaluated nozzles, spray pressure, or boom height  
Number of producers who plan to test pesticide application water (pH, alkalinity, etc.)  
Number of producers who tested pesticide application water (pH, alkalinity, etc.)  
Number of producer who will consider alternate materials based on REI, PHI, residues, etc.  
Number of producers who used alternate materials based on REI, PHI, residues, etc. |
| Integrated Plant Pest Management | - Number of producers who plan to integrate a new cultural management tactic with their current spray program  
- Number of producers who integrated a new cultural management tactic with current spray programs  
- Number of producers that plan to alter existing spray programs to reduce non-target impacts  
- Number of producers who altered existing spray program to reduce non-target impacts  
- Number of producers who plan to scout fields weekly for pest pressure  
- Number of producers who scouted fields weekly for pest pressure  
- Number of producers who will begin using biological control  
- Number of producers who used biological control  
- Number of producers who plan to research multiple options before selecting and applying pesticides  
- Number of producers who researched multiple options before selecting and applying pesticides |

| Pesticide Safety – Livestock Pests | - Number of producers planning to complete Kentucky Pesticide Application training  
- Number of producers who successfully completed Kentucky Pesticide Applicator Training  
- Number of producers who plan to train workers in worker protection standards (WPS)  
- Number of producers who trained workers in worker protection standards (WPS)  
- Number of producers that will make changes to farm chemical handling, storage and disposal practices  
- Number of producers who made changes to their farm’s chemical handling, storage, and disposal practices  
- Number of producers with plans to communicate with neighbors around their farm about pesticide-sensitive areas  
- Number of producers who communicated with neighbors/users of pesticide-sensitive areas around their farms |
| Chemical Livestock Management Tools | Number of producers who plan to improve chemical administration recordkeeping  
| Number of producers who improved chemical administration recordkeeping  
| Number of producers who plan to update farm chemical administration schedules to reduce the risk of developing resistance  
| Number of producers who updated their farm’s chemical administration schedule to reduce risk of developing resistance  
| Number of producers who plan to change chemical treatment techniques  
| Number of producers who changed chemical treatment techniques  
| Number of producers who plan to improve treatment schedule recordkeeping  
| Number of producers who improved treatment schedule recordkeeping  
| Number of producers who plan on reevaluating materials based on pre-slaughter or withdrawal periods  
| Number of producers who reevaluated materials based on pre-slaughter or withdrawal periods  
| Number of producers who plan to implement a non-chemical companion tactic  
| Number of producers who implemented a non-chemical companion tactic |
| Commercial Horticulture | Number of participants engaged in commercial horticulture programming |
| Commercial Horticulture – Landscape Ecosystems | Number of individuals reporting a high or very high increase in knowledge (of planting, maintenance, pruning, site analysis) after participating in the program  
| Number of **consumers** who implemented proper pruning techniques and/or plant maintenance practices after participating in the program  
| Number of **nursery landscapers, arborists, etc.** who implemented proper pruning techniques and/or plant maintenance practices after participating in the program  
| Number of **consumers** noticing a reduction in heating and/or cooling bills due to strategically planted trees/landscape  
| Number of **consumers** noticing noise reduction as a result of strategically planting trees/landscape  
| Number of **nursery landscapers, arborists, etc.** that reported a more profitable business as a result of planting in appropriate sites (as suggested by Extension) |
| Commercial Horticulture – Crop Marketing | Number of producers who plan to utilize a new method to advertise products as a result of what they learned from Extension  
Number of producers who utilized a new method to advertise products  
Number of producers who plan to utilize resources provided by Extension for marketing products  
Number of producers who actually utilized resources provided by Extension for marketing products  
Number of producers who plan to explore selling products in other types of markets currently not employed  
Number of producers who are selling products in other types of markets  
Number of producers who plan to use Facebook, Twitter and other social media to market their business  
Number of producers who used Facebook, Twitter and other social media to market their business |
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Farmer’s Markets</td>
<td>Number of participants gaining access to Extension programming at local farmer’s markets</td>
</tr>
</tbody>
</table>
| Agriculture Sustainability | Sustainable Agriculture  
Number of those indicating an increased awareness of sustainable agriculture practices  
Number of producers that implemented sustainable practices as a result of participating in Extension programs |
| Crop Production Systems | Grain Crops  
Number of producers who plan to utilize IPM practices for grain crops production as recommended by Extension  
Number of producers who utilized IPM practices for grain crops production as recommended by Extension  
Number of producers planning to adopt the usage of new technology for crop production  
Number of producers who adopted the usage of new technology for crop production  
Number of producers who plan to use diagnostic services to identify insects, disease and/or weeds  
Number of producers who used diagnostic services to identify insects, disease and/or weeds  
Number of producers who plan to adopt one or more fertility management recommendations |
| **Agricultural Economics** | Farm Management | - Number of producers/landowners willing to make changes to their leasing strategy  
- Number of producers/landowners who better understand land leasing options (including advantages/disadvantages of each)  
- Number of producers who are comfortable using financial principles in their operations.  
- Number of producers willing to adopt improved soil health/quality practices to improve profitability due to extension programming efforts.  
- Number of producers reporting improved machinery management through Extension programming efforts  
- Number of producers who gained knowledge of farm profitability for their enterprise(s) from Extension programming  
- Number of producers reporting increased profits and/or reduced risk due to farm management strategies learned through Extension programs |
| --- | --- | --- |
| **Ag Marketing** |  | - Number of producers reporting increased knowledge of insurance products available for risk management  
- Number of producers reporting a reduction in risk level from use of insurance products  
- Number of producers reporting an increase in knowledge of futures and options as a risk management strategy  
- Number of producers reporting a reduction in risk levels from using futures and options as a risk management strategy  
- Number of producers reporting an increase in general marketing knowledge  
- Number of producers incorporating increased marketing knowledge into their operations |
| **Ag Policy** |  | - Number of producers reporting an increased knowledge of farm bill programs  
- Number of producers incorporating increased knowledge of farm bill programs in enrollment decisions |
| **Biotechnology** | ANR Biotechnology | • Number of producers indicating an increased knowledge of economic impacts of environmental policy  
• Number of producers making changes to their operation as a result of increased knowledge of economic impacts of environmental policy |
| **Data Management & Tech** | Data Management & Tech | • Number of individuals participating in Extension programs focusing on biotechnology for producers |
| **Agricultural Economics** | Farm Management | • Number of producers incorporating technology to effectively manage their farming operations |
| **Forested Systems** | Forestry | • Number of landowners reporting an increased awareness of forestry conservation practices |
| **KSU Small Farm Program** | KSU Small Farm Program | • Number of producers participating in KSU small farm programming  
• Number of producers who reported putting into practice what they learned as a result of participating in KSU small farm programs |
<table>
<thead>
<tr>
<th>FCS Initiative</th>
<th>Major Program (s)</th>
<th>Program Indicator</th>
</tr>
</thead>
</table>
| Empowering Community Leaders  | Kentucky Extension Leadership Development (KELD): Developing Core Leadership Skills | • Number of individuals reporting improved personal and interpersonal leadership knowledge  
• Number of individuals reporting improved personal and interpersonal leadership skills (such as increased confidence as a leader, more effective interaction with diverse learning styles and culture, mastering the art of influencing others, improved public speaking)  
• Number of people who demonstrate personal and interpersonal leadership skills in clubs, schools and community outreach (including motivational techniques, storytelling, effective communication, followership, conflict resolution)  
• Number of hours volunteered to Extension activities and events by individuals who developed core leadership skills through the KELD program  
• Number of hours volunteered to community (non-Extension) activities and events by individuals who developed core leadership skills through the KELD program  
• Number of youth reached by volunteer-led Extension programs/activities  
• Number of adults reached by volunteer-led Extension programs/activities |
| Champion Food Volunteers      |                                                                                  | • Number of volunteers whose personal and interpersonal leadership knowledge and skills improved  
• Number of volunteers who practice personal and interpersonal leadership skills in clubs, schools and community outreach  
• Number of volunteers addressing community problems by assessing needs, developing programs and/or implementing solutions  
• Number of hours volunteers spent training others on behalf of Extension  
• Number of youth reached by volunteer-led Extension programs/activities  
• Number of adults reached by volunteer-led Extension programs/activities  
• Number of individuals reached by volunteer-led programs/activities who reported planning to improve at least one behavior related to subjects taught (kitchen readiness, food safety, addition of fruits and vegetables into the diet, movement of the body that leads to better physical fitness) |
| Master Clothing Volunteer     |                                                                                  | • Number of volunteers whose personal and interpersonal leadership knowledge and skills improved through the MCV program |
| Kentucky Extension Homemaker Association | Number of volunteers who **practice** personal and interpersonal leadership skills in clubs, schools and community outreach  
Number of Extension programs/activities **conducted** by Extension Homemaker members  
Number of KEHA members who worked with youth on behalf of Extension  
Number of hours KEHA members volunteered with Extension youth development work  
Number of hours KEHA members volunteered for Extension activities/events  
Number of hours KEHA members volunteered in community service (non-Extension) activities/events |
| Empowering Community Leaders (general) | Number of individuals reporting improved **knowledge, opinions, skills, and/or aspirations** (personal and interpersonal leadership, organizational leadership, community leadership, public policy/governmental process, etc.)  
Number of individuals who **practice** personal and interpersonal leadership skills in clubs, schools and community outreach  
Number of individuals who **use** communication, problem solving or group process skills to address organizational issues and need  
Number of individuals **addressing** community problems by assessing community needs, developing and implementing solutions  
Number of Extension empowered individuals **engaged** in existing coalitions or organizations to address a significant community issue |
<table>
<thead>
<tr>
<th>Embracing Life as We Age</th>
<th>Keys to Embracing Aging</th>
<th>Stand Up to Falling</th>
<th>Know the 10 Signs</th>
</tr>
</thead>
</table>
| - Number of Extension empowered individuals **organizing** new coalitions or organizations to address a significant community issue  
- Number of community **problems resolved** through actively engaged local leaders | - Number of participants reporting improved **knowledge** regarding life span behavior and decisions that affect health and well-being (such as enhanced knowledge of: positive attitude, smart and healthy eating, physical activity, mental activity, social activity, tuning-in to the times, safety, health numbers, stress management, financial management sleep, and taking personal time)  
- Number of participants reporting improved life style behavior **skills**  
- Number of participants who **demonstrate** healthy lifestyles and behaviors | - Number of participants who improved fall prevention **knowledge and skills** to help reduce the risk of falling  
- Number of participants reporting **intent** to implement one or more strategies to reduce the risk of falling (such as protecting vision, reviewing medications, increase physical activity, necessary home modifications)  
- Number of participants who **took action** to protect their vision to reduce the risk of falling  
- Number of participants who **took action** to reduce their risk of falling at home through home modification  
- Number of participants who **reviewed** their medications with a health care professional to reduce the risk of falling  
- Number of participants who **increased** physical activity to reduce the risk of falling | - Number of participants whose **knowledge** about the risk factors of Alzheimer’s disease improved  
- Number of participants whose **knowledge** increased regarding the benefits of early diagnosis  
- Number of participants whose **knowledge** increased regarding what to do if they notice some of the risk factors for Alzheimer’s disease  
- Number of participants who **practice** healthy behavior (such as physical activity, healthy diet, stress management, sleep, mental exercise, meaningful social engagement) |
<table>
<thead>
<tr>
<th>Program</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of participants who feel confident in managing their current situation (such as talking about what is happening, calling a health care professional, following up with resources)</td>
<td></td>
</tr>
</tbody>
</table>
| Traditions                                             | Number of participants whose knowledge improved regarding characteristics of strong families  
|                                                        | Number of participants whose knowledge improved regarding the importance of family traditions  
|                                                        | Number of participants whose knowledge improved regarding a connection between strong families and traditions  
|                                                        | Number of participants who reported intent to maintain a family tradition or create a new one  
|                                                        | Number of participants who maintained a family tradition in the months following the program  
|                                                        | Number of participants who created a new family tradition in the months following the program  |
| Embracing Life as We Age (general)                     | Number of participants reporting improved knowledge, opinions, skills or aspirations regarding healthy aging, independent aging, and quality aging  
|                                                        | Number of participants reporting behavior changes related to healthy, independent or quality aging (such as decreasing the risk of falling; increasing communication and enhancing relationships; enhancing brain activity; improving mental health; making healthy eating choices; engaging a family unit to embrace aging issues)  |
| Making Healthy Lifestyle Choices                       | Number of those who reported knowledge gained about the benefits of spending time in physical activity  
|                                                        | Number of people who demonstrated spending time in physical activity  
|                                                        | Number of environmental changes implemented to support physical activity guidelines in the county (e.g., walking trails opened, equipment purchased and installed, bike paths built)  
|                                                        | Number of individuals who experienced an increase in knowledge, opinions, skills, or aspirations regarding lifestyle changes (diet, stress management, etc.) that improve personal health  
|                                                        | Number of individuals reporting adoption of physical activity practices  |
| Truth and Consequences: The Choice is Yours            | The following information is found at the end of the parent survey (Question 11): |
- Number of parents that have gained awareness of the problem and impacts of substance abuse in the community as a result of Extension efforts.
- Number of parents that have gained knowledge of the resources that are available for substance abuse in the community as a result of Extension programming.

The following information is found at the end of the community partners survey (Question 8):
- Number of community partners that have gained awareness of the problem and impacts of substance abuse in the community as a result of Extension efforts.
- Number of community partners that have gained knowledge of the resources that are available for substance abuse in the community as a result of Extension programming.

The following information is found at the end of the student survey (Question 19):
- Number of students indicating that they developed a better understanding of the consequences of substance abuse (legal, health, emotional, and financial).
- Number of students indicating that they developed a better understanding of the risk and harm of substance abuse.
- Number of students indicating that they developed a better understanding of where to access help in the community for a substance abuse issue.

Please provide the following information:
- Number of community partners/agencies involved in the Truth and Consequences: The Choice is Yours Program.
- Number of total volunteer hours completed through the Truth and Consequences: The Choice is Yours Program.
- Number of students that completed the Truth and Consequences: The Choice is Yours Program.
- Number of additional substance abuse education and/or prevention activities that occurred as a result of the Truth and Consequences: The Choice is Yours Program.
- Number of community partners that have adopted/enforced substance abuse prevention policies.

The following question is to be answered with the Follow-Up Survey:
- Number of students who know peers that are no longer engaging in substance abuse as a result of what they learned from the program.
<table>
<thead>
<tr>
<th>Module</th>
<th>Description</th>
</tr>
</thead>
</table>
| Weight the Reality | - Number of individuals who experienced an **increase in knowledge**, opinions, skills, or aspirations regarding lifestyle changes (diet, exercise, etc.) that improve personal health  
- Number of individuals who **made lifestyle changes** (diet, exercise, etc.) for the purpose of improving their health  
- Number of youth and adults who **demonstrate** informed and effective decision-making  
- Number of those who reported eating more healthy foods  
- Number of individuals who reported improving at least one **behavior** related to subjects taught (food preparation, addition of fruits and vegetables into the diet, movement of the body that leads to better physical fitness, and reducing the risk of chronic disease)  
- Number of those that **reported utilizing** delivery systems/access points (e.g., farmer’s markets, CSA’s, WIC, Food Pantry) that offer healthy foods |
| Making Healthy Lifestyle Choices (Curriculum) | - Number of individuals who reported increase in knowledge related to eating more healthy foods (such as fruits & vegetables; whole grains, fat free or low-fat milk products; seafood twice a week) that improve personal health  
- Number of individuals who reported eating more foods for the purpose of improving their health  
- Number of individuals who reported an increase in knowledge related to eating less of foods/food components which are commonly eaten in excess (sodium, saturated fats, trans fat, cholesterol, SoFAS, refined grains)  
- Number of individuals who reported eating less of foods/food components which are commonly eaten in excess (sodium, saturated fats, trans fat, cholesterol, SoFAS, refined grains) |
| Taking Ownership of Your Diabetes Program (Curriculum) | - Number of individuals who lost 5 to 7 percent of body weight  
- Number of people who took part in physical activity for 30 or more minutes on five or more days of the week (may be completed by a minimum of three 10 minute sessions of physical activity)  
- Number of people seen by a health professional as a means of managing their diabetes one or more times during the year  
- Number of people who checked their blood glucose 1 or more times per day  
- Number of people who had their A1C checked in the past year |
<table>
<thead>
<tr>
<th><strong>Family Mealtime (curriculum)</strong></th>
<th><strong>Making Healthy Lifestyle Choices (General)</strong></th>
<th><strong>Nurturing Families</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Number of individuals and families who reported an increase in knowledge related to the benefits of family mealtime</td>
<td>• Number of people reporting improved lifestyles through a focus on proper nutrition, disease and injury reduction and comprehensive health maintenance</td>
<td><strong>Nurturing Parenting</strong></td>
</tr>
<tr>
<td>• Number of individuals and families who reported having family meals on three or more nights of the week</td>
<td>• Number of healthy lifestyle-related coalitions in which Extension is involved</td>
<td>• Number of individuals (parents or caregivers) reporting improved personal knowledge (such as enhanced knowledge of realistic behavior expectations and positive discipline techniques for children, healthy ways to promote children’s success in schools, and greater understanding of a child’s growth and development)</td>
</tr>
<tr>
<td>• Number of individuals and families who reported making healthier choices or choosing more nutrient dense choices as a result of having family meals</td>
<td>• Number of people that reported eating more of healthy foods</td>
<td></td>
</tr>
<tr>
<td>• Number of people who increased the total number of vegetables in their diet</td>
<td>• Number of individuals who made lifestyle changes (diet, exercise, managing stressors, etc.) for the purpose of improving their health</td>
<td></td>
</tr>
<tr>
<td>• Number of people who increased the number of dark green leafy, red and yellow/orange, and beans and peas in their diet</td>
<td>• Number of individuals implementing personal health protection practices (screening, immunizations, well-baby care, preventive health practices, etc.)</td>
<td></td>
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<tr>
<td>• Number of people who increased access to vegetables through Farmers Markets, farm-to-institution and community supported agriculture programs</td>
<td></td>
<td></td>
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<tr>
<td>• Number who increased their intake of seafood</td>
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<tr>
<td>Keys to Great Parenting</td>
<td>Blue To You</td>
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<tr>
<td>• Number of individuals (parents or caregivers) reporting improved personal <strong>skills</strong> (such as increased discipline and communication skills, effective strategies for helping children manage their behavior and building self-worth and personal power)</td>
<td>• Number of youth and adults reporting improved personal <strong>knowledge</strong> (such as enhanced knowledge of depression signs, symptoms, causes, and treatments, and stress management) of how to help/support a family member with depression</td>
<td></td>
</tr>
<tr>
<td>• Number of people (families) who reported using preventive and positive discipline techniques in response to child’s misbehavior, and setting and enforcing logical consequences for children’s behaviors</td>
<td>• Number of individuals (youth and adults) reporting improved personal <strong>skills</strong> (such as increased effective strategies for choosing the right treatment) to relieve depressive symptoms</td>
<td></td>
</tr>
<tr>
<td>• Number of parents and/or caregivers who practice parental leadership <strong>skills</strong> such as parental empathy, proper ways of establishing family rules, and concrete support of their child to develop a sense of positive self-worth</td>
<td>• Number of <strong>parents and/or caregivers</strong> fostering the optimal development of children and tweens (6 months following the program)</td>
<td></td>
</tr>
<tr>
<td>• Number of parents and/or caregivers who accessed community resources when needed</td>
<td>• Number of <strong>parents and/or caregivers</strong> who accessed agencies or community resources when needed</td>
<td></td>
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<tr>
<td>Section</td>
<td>Details</td>
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<td>----------------------------------------------</td>
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<tr>
<td>Number of individuals (youth and adults) who reported practicing behaviors related to subjects taught to manage and improve their depression or that of their family member (find specialized assistance or support, engage in healthy physical activities)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of individuals who accessed community resources to find assistance for depression when needed</td>
<td></td>
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<tr>
<td>Number of families who take care for the mental health and well-being of each individual over a long period</td>
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</table>

**Grandparents and Grandchildren Together**

<table>
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<tr>
<th>Details</th>
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<tbody>
<tr>
<td>Number of individuals (grandparent or relative) reporting improved personal knowledge (such as enhanced knowledge of the various roles and levels of responsibility that grandparents and relatives play within their families; knowledge of a child’s developmental levels and developmentally appropriate playthings or activities)</td>
</tr>
<tr>
<td>Number of individuals (grandparent or relative) reporting improved personal skills (such as effective strategies for raising a grandchild or a relative)</td>
</tr>
<tr>
<td>Number of individuals (grandparents or relatives raising a child) who sought support from local community organizations and/or its individual members</td>
</tr>
<tr>
<td>Number of individuals who extended any type of support to another grandparent or relative raising a child</td>
</tr>
<tr>
<td>Number of individuals who accessed community resources to find assistance when needed</td>
</tr>
</tbody>
</table>

**Home is Where the Health Is**

<table>
<thead>
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<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of individuals (parents or caregivers) reporting improved personal knowledge and skills (of healthy eating habits and positive discipline techniques for children)</td>
</tr>
<tr>
<td>Number of individuals (parents or caregivers) who practice new and active ways to help their children achieve or maintain a healthy weight as well as ways to have fun with them</td>
</tr>
<tr>
<td>Number of individuals who reported always or regularly practicing at least one behavior related to subjects taught (fix nutritious after-school snacks; play actively with children indoors or outdoors; include fruits and vegetables in meals each day; set and enforce clear and simple rules)</td>
</tr>
<tr>
<td>Number of families who reported eating 5 or more meals together in the week (prior to follow up survey completion)</td>
</tr>
<tr>
<td>Number of families fostering the optimal development of children</td>
</tr>
<tr>
<td>Program</td>
</tr>
<tr>
<td>---------------------------------------------</td>
</tr>
</tbody>
</table>
| Relationship Smart Plus 3.0                 | - Number of youth reporting improved personal knowledge (such as enhanced knowledge of making and maintaining healthy relationships, ‘red flags’ of unhealthy and abusive relationships, boundary setting, respect and how to handle break-up and moving forward)  
  - Number of youth reporting improved personal skills for handling the early chemistry of attraction and choosing romantic partners and friends wisely; enhanced decision-making skills for pressure interpersonal situations; improve language skills for talking about attractions, emotions, healthy relationships and love  
  - Number of youth who talk about and practice healthy relationship skills after each program session  
  - Number of youth who reported at the end of the program’s sessions practicing at least one behavior related to subjects taught |
| Nurturing Families (general)                | - Number of individuals (parents or caregivers) reporting improved personal skills (such as increased personal strengths, interpersonal communication and life skills to strengthen families)  
  - Number of individuals demonstrating nurturing attitudes and behaviors by caring for the health and well-being of individuals throughout the lifespan.  
  - Number of individuals reporting behaviors that foster the optimal development of children and youth  
  - Number of parents and/or caregivers who practice one or more parental leadership skills (such as parental empathy, proper ways of establishing family rules, and concrete support their child to develop a sense of positive self-worth)  
  - Number of individuals actively engaged in collaborations and programs that build community capacity to nurture families |
| Promoting Healthy Homes & Communities       | - Number of individuals reporting improved knowledge regarding healthy homes (such as indoor contaminants or household chemicals, effects of moisture, potential home safety hazards, indoor pollutants and combustion contaminants)  
  - Number of individuals reporting intent to adopt at least one practice to achieve a more healthy home (such as examine home for contaminants and harsh chemicals, evaluate moisture risk, conduct a home safety quiz/audit, evaluate home ventilation)  
  - Number of individuals who developed an action plan to ensure a healthier home |
<table>
<thead>
<tr>
<th>Section</th>
<th>Measured Outcomes</th>
</tr>
</thead>
</table>
| **Bedrooms, Bathrooms & Beyond: Home Accessibility** | - Number of people who reported *implementing* at least one practice to achieve a healthier home  
- Number of individuals self-reporting *health benefits* associated with newly adopted practices to achieve a healthier home |
| **Disaster Preparedness**     | - Number of individuals reporting improved *knowledge* regarding disaster preparedness (such as emergency kit contents; daily water needs for survival; evacuation and sheltering in place plans)  
- Number of individuals reporting *intent* to implement one or more disaster preparedness strategy  
- Number of individuals who *made changes in the home* to make it more accessible  
- Number of individuals who reported *implementing* at least one assistive technology  
- Number of individuals self-reporting *safety benefits* associated with newly adopted practices to achieve a healthier home |
| **Home Energy Management**    | - Number of individuals reporting improved *knowledge* regarding energy conservation (such as the importance of energy conservation; energy saving practices, e.g. with natural lighting, home décor, landscaping; benefits of home energy efficiency; multiple costs of energy consuming products) |
| Environmental Sustainability & Responsibility | Number of individuals reporting *intent* to implement one or more energy conservation practices (such as home practices, on the road, relating to appliances, water conservation, home energy usage assessment)  
Number of individuals who *assessed home energy usage* (such as completing the home energy self-assessment, or evaluated home for phantom energy use)  
Number of individuals who *implemented one or more energy conservation strategies* (at home, on the road, in appliances, water conservation)  
Number of people who *changed* home décor or landscaping to improve energy conservation  
Number of individuals self-reporting *reduced energy costs* associated with newly adopted practices to achieve a more energy efficient home |
| Number of individuals reporting improved *knowledge* regarding environmental sustainability and responsibility (such as what “green” means; how daily choices impact environment; 3 R’s of waste management; proper disposal of hazardous waste; the importance of conserving water; indoor and outdoor water conservation practices; emergency water conservation practices)  
Number of individuals reporting *intent* to implement one or more new or additional strategies to promote environmental sustainability  
Number of individuals who *implemented* one or more new or additional water conservation practices (in the home, in landscape or garden)  
Number of individuals who *implemented* one or more new or additional strategies to promote environmental sustainability (such as reduce waste, eat responsibly, act locally, reduce consumption, recycle, reuse, and properly dispose of hazardous waste)  
Number of individuals reporting an *increase* in recycled or reused household waste |
| Promoting Healthy Homes and Communities (general) | Number of individuals reporting improved *knowledge, opinions, skills, and/or aspirations* in understanding: disaster preparedness, pest management, going green, energy conservation, solid waste management, water conservation, home safety or built environment  
Number of individuals who *identified* one or more practices to improve disaster preparedness, pest management, going green, etc.  
Number of individuals who *implemented* one or more practices to improve: disaster preparedness, pest management, going green, etc. |
<table>
<thead>
<tr>
<th><strong>Securing Financial Stability</strong></th>
<th><strong>Small Steps to Health &amp; Wealth</strong></th>
<th><strong>Estate Planning</strong></th>
<th><strong>Money Habitudes</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of individuals who assessed the cost savings and/or benefits associated with newly adopted practices</strong></td>
<td><strong>Number of individuals reporting increased levels of understanding in the area: how to track eating habits</strong></td>
<td><strong>Number of individuals who reported increased levels of understanding in the area: learned how to manage/address current estate planning issues facing the family, farming operation, or business</strong></td>
<td><strong>Number of individuals reporting increased levels of understanding in the area: learning how habits and attitudes trigger spending</strong></td>
</tr>
<tr>
<td><strong>Number of individuals self-reporting reduced costs associated with newly adopted practices</strong></td>
<td><strong>Number of individuals reporting increased levels of understanding in the area: the relationship between health and finances</strong></td>
<td><strong>Number of individuals who reported increased levels of understanding in the area: identifying estate planning strategies for the family, farming operation, or business</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Number of people engaged in community strategies to improve the built and natural environment to increase active and healthy lifestyles</strong></td>
<td><strong>Number of individuals reporting increased levels of understanding in the area: how to track spending habits</strong></td>
<td><strong>Number of individuals who reported increased levels of understanding in the area: confidence in handling estate planning or specific financial matters</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Number of people self-reporting reduced costs associated with newly adopted practices</strong></td>
<td><strong>Number of individuals who created at least one specific health goal</strong></td>
<td><strong>Number of individuals who created at least one specific estate planning goal for the family, farming operation, or business</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Number of people engaged in community strategies to improve the built and natural environment to increase active and healthy lifestyles</strong></td>
<td><strong>Number of individuals who created at least one specific wealth goal</strong></td>
<td><strong>Number of individuals who took action toward implementing at least one estate planning strategy in regard to the subject matter presented</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Number of people engaged in community strategies to improve the built and natural environment to increase active and healthy lifestyles</strong></td>
<td><strong>Number of individuals who implemented at least one health and one financial behavior change strategy</strong></td>
<td><strong>Number of individuals who implemented at least one strategy in regard to estate planning</strong></td>
<td></td>
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<tr>
<td><strong>Number of people engaged in community strategies to improve the built and natural environment to increase active and healthy lifestyles</strong></td>
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<tr>
<td><strong>Real Skills for Everyday Life</strong></td>
<td><strong>Managing in Tough Times</strong></td>
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<tr>
<td>Number of individuals reporting increased levels of understanding in the area: how to manage money to reach financial goals</td>
<td>Number of individuals reporting increased levels of understanding in the area: how to manage/address current economic events facing the family, farming operation, or business</td>
<td></td>
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</tr>
<tr>
<td>Number of individuals reporting increased levels of understanding in the area: confidence in handling money issues or specific financial matters</td>
<td>Number of individuals reporting increased levels of understanding in the area: identifying money management cost-saving strategy for the family, farming operation, or business</td>
<td></td>
<td></td>
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<tr>
<td>Number of individuals reporting the intent to adjust at least spending habit toward financial stability</td>
<td>Number of individuals reporting increased levels of understanding in the area: confidence in handling money issues or specific financial matters</td>
<td></td>
<td></td>
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<tr>
<td>Number of individuals who reported the intent to be more aware of how money affects relationships</td>
<td>Number of individuals who created at least one specific saving or wealth related goal for family, farming operation, or business</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Number of individuals who implemented at least one strategy to reduce expenses or manage money</td>
<td>Number of individuals who took action toward implementing at least one financial management strategy in regard to the subject matter presented</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Number of individuals reporting improved knowledge (such as knowledge of ways to reduce expenses; cut spending; and save for emergencies)
- Number of people who increase their knowledge of ways to balance income and expenses
- Number of people who have improved their skills to feel more in control of their money
- Number of individuals who practice setting goals for the use of their money
- Number of individuals who identify their needs and wants and secure needs first
- Number of individuals who identify resources to help with their budget
- Number of individuals who demonstrate skill in listing their expenses and income and totaling each

- Number of individuals reporting increased level of understanding in the area:
- confidence in handling money issues or specific financial matters
- Number of individuals who created at least one specific saving or wealth related goal for family, farming operation, or business
- Number of individuals who took action toward implementing at least one financial management strategy in regard to the subject matter presented
<table>
<thead>
<tr>
<th><strong>Securing Financial Stability (general)</strong></th>
<th><strong>Number of individuals who implemented at least one strategy to reduce expenses or manage money</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• Number of individuals reporting improved <strong>knowledge and skills</strong> related to securing financial stability (such as managing financial and non-financial resources; consumer rights and privacy protection; importance of education and employability skills; personal goal setting to maintain and improve financial stability)</td>
</tr>
<tr>
<td></td>
<td>• Number of individuals who <strong>adopted</strong> short, mid and/or long term financial planning strategies</td>
</tr>
<tr>
<td></td>
<td>• Number of individuals who <strong>applied</strong> practical living skills to advance education or employability</td>
</tr>
<tr>
<td></td>
<td>• Number of individuals who <strong>practiced</strong> one or more resource management behavior(s) resulting in increased savings or investments</td>
</tr>
<tr>
<td></td>
<td>• Number of individuals who <strong>implemented</strong> strategies to avoid breaches in personal or financial security</td>
</tr>
<tr>
<td></td>
<td>• Number of people who <strong>examined</strong> personal and financial stability on a regular basis (at least annually)</td>
</tr>
<tr>
<td></td>
<td>• Number of individuals self-reporting <strong>improved financial stability and economic well-being</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Accessing Nutritious Foods</strong></th>
<th><strong>Plate It Up! Kentucky Proud</strong></th>
<th><strong>Number of individuals more likely to buy a Kentucky fruit or vegetable as a result of tasting a Plate It Up! Kentucky Proud recipe sample</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>• Number of individuals more likely to buy a Kentucky fruit or vegetable as a result of receiving a Plate It Up! recipe card</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Number of individuals who indicated that they <strong>purchased</strong> the fruits and vegetables featured on the Plate It Up! recipe card</td>
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<td></td>
<td></td>
<td>• Number of individuals who reported an increase in their fruit and/or vegetable consumption</td>
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<tr>
<td></td>
<td></td>
<td>• Number of individuals who reported consuming at least 4-6 servings of fruits per day after participating in Plate It Up! Kentucky Proud activities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Number of individuals who reported consuming at least 4-6 servings of vegetables per day after participating in Plate It Up! Kentucky Proud activities</td>
</tr>
</tbody>
</table>
| **Food Preservation** | • Number of vendors reporting increased sales at markets where Plate It Up Kentucky Proud recipes are tasted or recipe cards distributed  
• Dollar value of vendor-reported increased sales associated with Plate It Up Kentucky Proud recipes tasted or cards distributed  
• Number of families/caregivers reporting supplementing their diets with healthy foods that they preserved (utilizing community or backyard gardens, fishing, hunting, farmers markets)  
• Number of food preservation program participants reporting increased food preservation **knowledge or skills** (such as safe preservation techniques for canning, freezing and dehydration; identifying food spoilage; use of proper tools, etc.)  
• Number of food preservation program participants who correctly **demonstrated** recommended food preservation practices (canning, freezing or dehydration)  
• Number pints of fruits, vegetables or fruit/vegetable products (pickles, jams, jellies, sauces) canned through water bath canning  
• Number pints of vegetables, soups, meats, or other value-added products canned through pressure canning  
• Number pints of fruits or vegetables frozen  
• Number pints of fruits or vegetables food dried |
| **Youth Fruit & Vegetable Access** | • Number of children grades K-2 who could identify vegetables  
• Number of children grades K-2 who could identify fruits  
• Number of children grades 3-5 who report eating vegetables  
• Number of children grades 3-5 who report eating fruit  
• Number of children grades 3-5 who report intention to ask their family to buy their favorite fruit or vegetables  
• Number of children grades 3-5 who report the intent to ask their family to keep fruits in a place where they can reach them |
<table>
<thead>
<tr>
<th>Maternal &amp; Infant Nutrition</th>
<th>Number of women of childbearing age who express <em>intent</em> to breastfeed</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Number of women of childbearing age who report breastfeeding their infants for six weeks or more</td>
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<tr>
<td></td>
<td>Number of women of childbearing age who access community services to support breastfeeding, such as WIC breast pump services</td>
</tr>
<tr>
<td></td>
<td>Number of women of childbearing age who reported eating more healthy foods</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Food Preparation</th>
<th>Number of individuals reporting improved <em>knowledge, opinions, skills, or aspirations</em> regarding the safe storage, handling, and preparation of food</th>
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<tbody>
<tr>
<td></td>
<td>Number of individuals who <em>demonstrated</em> safe handling and preparation of food</td>
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<tr>
<td></td>
<td>Number of individuals who report <em>intention</em> to cook more</td>
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<tr>
<td></td>
<td>Number of individuals who report <em>preparing</em> more healthy home cooked meals</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessing Nutritious Foods (General)</th>
<th>Number individuals reporting that their family supplemented their diets with healthy foods that they produced or preserved</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Number of individuals who reported eating more healthy foods</td>
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<tr>
<td></td>
<td>Number of individuals reporting that they utilized delivery systems/access points (e.g. farmer’s markets, CSA’s WIC, Food Pantry) that offer healthy foods</td>
</tr>
<tr>
<td></td>
<td>Number of farmers markets accepting EBT cards</td>
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<td></td>
<td>Dollars in EBT, WIC or Senior benefits redeemed at farmers markets</td>
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<tr>
<td></td>
<td>Number of families who grew a garden this year</td>
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<tr>
<td></td>
<td>Number of first time growers or those who haven’t grown in five or more years</td>
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<tr>
<td>CED Initiative</td>
<td>Program</td>
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<tr>
<td>Economic Development</td>
<td>Business Retention and Expansion</td>
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<tr>
<td>Agritourism Planning</td>
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<tr>
<td>First Impressions</td>
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<tr>
<td>Economic Gardening</td>
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<tr>
<td>Leadership Development</td>
<td>Kentucky Extension Leadership Development</td>
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<td>(KELD)</td>
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<tr>
<td>Youth Engagement</td>
<td>Youth Engagement Leadership Program (YELP)</td>
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<tr>
<td>Conflict Resolution</td>
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<tr>
<td>Program</td>
<td>Metrics</td>
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<td>----------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
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<tr>
<td>Facilitation Training</td>
<td>• Number of people who reported acquiring new facilitation skills</td>
</tr>
<tr>
<td></td>
<td>• Number of people who have become more effective at facilitation</td>
</tr>
<tr>
<td></td>
<td>• Number of people reporting increased confidence in their facilitation</td>
</tr>
<tr>
<td></td>
<td>abilities</td>
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<tr>
<td>Local Food Systems</td>
<td>• Number of partners engaged through Extension’s efforts</td>
</tr>
<tr>
<td>Local Food System Development and Mapping</td>
<td>• Number of restaurants/other institutions utilizing local food as a</td>
</tr>
<tr>
<td></td>
<td>• Number of food partnerships formed through Extension coalitions</td>
</tr>
<tr>
<td></td>
<td>• Number of Food System Maps created</td>
</tr>
<tr>
<td>Rural Grocer Training</td>
<td>• Number of partners engaged through Extension’s efforts</td>
</tr>
<tr>
<td></td>
<td>• Number of restaurants/other institutions utilizing local food as a</td>
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<tr>
<td></td>
<td>• Number of food partnerships formed through Extension coalitions</td>
</tr>
<tr>
<td></td>
<td>• Number of Food System Maps created</td>
</tr>
<tr>
<td>Arts and Creativity</td>
<td>• Number of arts/creative placemaking projects completed</td>
</tr>
<tr>
<td>Community Design/Creative Placemaking</td>
<td>• Number of artisans participating in Extension program</td>
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<tr>
<td></td>
<td>• Number of artisans who report an increase in income based on what</td>
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<td></td>
<td>• Number of participants involved in community art projects</td>
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<tr>
<td>E-Commerce for Artisans</td>
<td>• Number of arts/creative placemaking projects completed</td>
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<td>• Number of artisans participating in Extension program</td>
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<td></td>
<td>• Number of artisans who report an increase in income based on what</td>
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<td></td>
<td>• Number of participants involved in community art projects</td>
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<tr>
<td>Trail Design</td>
<td>• Number of arts/creative placemaking projects completed</td>
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<td>• Number of artisans participating in Extension program</td>
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<td></td>
<td>• Number of artisans who report an increase in income based on what</td>
</tr>
<tr>
<td></td>
<td>• Number of participants involved in community art projects</td>
</tr>
</tbody>
</table>
| **Community Health** | **Building Healthy Coalitions** | • Number of participants involved in community art projects  
• Number of new health organizations created as a result of Extension programming  
• Number of agencies engaged in community health coalitions  
• Number of activities or programs initiated by Extension-sponsored community health coalitions  
• Funding dollars received by community health coalitions |
| **Community Health Needs Assessment** | • Number of new health organizations created as a result of Extension programming  
• Number of agencies engaged in community health coalitions  
• Number of activities or programs initiated by Extension-sponsored community health coalitions  
• Funding dollars received by community health coalitions |
| **Mobilizing Action through Planning and Partnerships (MAPP)** | • Number of new health organizations created as a result of Extension programming  
• Number of agencies engaged in community health coalitions  
• Number of activities or programs initiated by Extension-sponsored community health coalitions  
• Funding dollars received by community health coalitions |
| **Health Leadership Program** | • Number of new health organizations created as a result of Extension programming  
• Number of agencies engaged in community health coalitions  
• Number of activities or programs initiated by Extension-sponsored community health coalitions  
• Funding dollars received by community health coalitions |
| **Strategic Planning** | **Community Strategic Planning** | • Number of projects/plans created through Extension’s assistance  
• Number of activities/programs initiated by Extension as a result of the strategic planning process  
• Number of partners engaged in the community strategic planning process |
Nutrition and Food Sciences

Nutrition and Food Science Sensory Services Laboratory is training Tiger Tasters. They are working with food industry to identify drivers of consumer preferences. Tiger Tasters provide consultation, services and education on sensory attributes of texture, taste, color, flavor, acceptance of foods.

Amber Jack, a food sciences graduate student in the LSU College of Agriculture, has developed a gluten-free, sugar-free banana muffin that closely mimics the taste and texture of a regular muffin.

Ariana Bailey’s poster was selected by the American Society for Nutrition (ASN) as part of the Emerging Leaders in Nutrition Science Poster Competition, an event that recognizes the top 20% highest scoring abstracts as finalists at 2016 Experimental Biology Conference.

LSU AgCenter Food Incubator continues to be a one-stop resource center for people looking to break into the food business and put sellable, high-quality products on store shelves. The incubator puts within reach of entrepreneurs the tools to test, produce, and package and market foods. The incubator has 32 processing tenants. Tenant products are in local grocery stores as well as Whole Foods.

The extension nutrition program has fully adopted the Healthy Communities model. Funds received from CDC for three parishes to address health and wellness will target parishes with over a 40% rate for obesity. Partners in this effort are Southern University AgCenter and Pennington Biomedical Research Center.

Agriculture and Natural Resources (ANR)

The Louisiana Master Farmer (LAMF) program

- Over 600 new participants participated in LAMF training during 2015.
- Two LAMF Universities were held allowing participants to complete Phase I and II classes during a consecutive period of two days.
- Nineteen new LAMF’s were certified and 20 currently certified farmers were re-certified for an additional 5 years.
- A statewide nutrient management and conservation practices survey was administered through the LAMF program. Results are still being compiled.

Multi-Agency ANR Committees/Events

The PSEP coordinator is developing a train-the-trainer program that will be initiated fall, 2016, for US EPA’s New WPS guidelines.

Education and outreach programs have continued for the public as infestations of the Emerald Ash Borer continues to expand across the state.

The LSU AgCenter initiated a cooperative with several state agencies and private associations to develop a stakeholder network for statewide distribution of a biocontrol agent to manage the invasive weedy species, Giant salvinia.

Prescribed burning workshops were provided to forestry and field crops stakeholders across the state delivered supporting the State’s certification program.
Since 2011, the LSU AgCenter and other partnering agencies have participated in an AFRI biofuels research and education grant. Extension efforts included presentations, field demonstrations, written materials, and web based information on producing bioenergy from agricultural crops. A survey indicated researchers, specialists, and county agents should continue to create and/or pursue research-based information to build knowledge in the area of biofuels/bioenergy. Results of this survey should reinforce the AgCenter’s extension mission that plays a major role in influencing the adoption of management decisions for future biofuels/bioenergy industries in Louisiana.

Animal Sciences and Natural Resources

Dr. Philip Elzer was named the Interim Director of the LSU School of Animal Sciences.

The School of Animal Sciences changed the degree major from Dairy, Poultry and Animal Sciences to Animal Sciences.

Development of training materials for veterinarians and cattle, swine, sheep and goat producers on new FDA Veterinary Feed Directive rules that go into effect January 1, 2017.

Restarted the Master Cattleman program in 2012 and as of December 2015 we have certified 325 individuals.

Researchers are still working on a novel control/bait program to control feral swine.

4-H

Members – 47,212
School Enrichment Special Interest –265,527
Total without duplications –199,417
Youth and Adult Volunteers –8,744
Mission Mandate Enrollment Science, Engineering, and Technology –107,244
Citizenship/Leadership –92,117
Healthy Living –25,454

4-H University - This 4-day learning experience reached 1,515 teens from all 64 parishes of the state. Four-H University provides a range of experiences from competitive events, to short-term educational programs, to more in-depth learning in Clover College.

4-H Camp - Camping is one of the most valuable experiences a child can have. A total of 4,054 youth attended 4-H Summer Camp in 2015. The tracks for summer camp included: Wetlands, Science, Engineering, Technology, Survival Skills, Hunter Safety, and Outdoor Adventures.

Smart Bodies - Smart Bodies (SB) is a comprehensive nutrition education and physical activity program. From August 2014 through July 2015, 27,744 students, 1,503 teachers and 1,198 volunteers were involved with the smart bodies program in schools. In addition, 1,981 youth and adults were engaged in public Smart Bodies events.

Youth Wetlands Program – This environmental state-wide program is designed to heighten students’ awareness of Louisiana’s wetland loss. Since its inception this program has reached more than 90,720 students in grades 3rd-12th and 1,558 educators in 64 parishes.

Community Service and Service-Learning – Over 46,500 4-H members participated in community service and service-learning projects during the 2014-2015 year. Forty service projects were conducted that benefitted more than 20,000 people with an economic impact of $21,921.

Overnight Chaperone Training Program

Approximately 1,000 adult volunteers serve as overnight chaperones each year for Louisiana 4-H programming. As a result of the Louisiana 4-H overnight chaperone training program, 98 percent of participants felt that they have gained information on how to create a positive environment for youth. Ten years after the creation of the program, it continues to provide tools, guidelines, and training for 4-H adult volunteers.
MSU Extension received a 1.5% mid-year state appropriates budget reduction. This reduction slowed the rehiring of agents and faculty across all the units. Rehiring is currently being done on a case-by-case justification.

MSU Extension external awards continued to increase through grants and contracts for the calendar year 2015. MSU Extension currently represents 20% of the university's total external awards.

MSU Extension’s **Program Development Process** has been a success. Faculty submitted 129 planned programs to the Program Planning Team for review. These plans were based on a recent Statewide Needs Assessment. The programs were developed by faculty assigned to one of ten program planning areas:

- Plant Systems
- Environmental Systems Forestry
- Animal Systems
- Wildlife and Fisheries
- Environmental Sustainability/Pest Management
- Community Resource and Economic Development
- Enterprise Economics
- Family and Consumer Education 4-H Youth Development
- Management
- Development

MSU Extension provided a new **Extension Faculty and Agent Orientation** for new faculty/specialists. Under the leadership of Dr. Marina Denny, we have a revised Extension Agent Orientation and Agent Mentoring Program, which are both grounded in our new State Plan of Work.

The MSU Extension Center for Technology Outreach implemented a **Long-Range Technology Plan**, which began in 2015. Completed the first step by replacing Agent laptops throughout the state.

MSU Extension continued the statewide **Producer Advisory Council** meetings by regions in partnership with Mississippi Farm Bureau Federation as a part of the annual Needs Assessment process.

In building on our partnership with Mississippi Farm Bureau Federation, have obtained their sponsorship for the **Mississippi Program for the Advancement of Agricultural Leadership**. The first leadership class will begin in fall of 2016.

MSU celebrated the 40th Anniversary of the **Farmweek television show** which is shown statewide in Mississippi as well as nationally on RFD Television.
MSU Extension's role continued to increase international development and education by increasing our collaboration with the MSU International Institute by supporting faculty and agents on projects in Italy, Ghana, Brazil, etc., in 2015.

MSU Extension worked collaboratively with the Dean of CALS/CFR & Director of MAFES, faculty, staff to hire two department heads, Dr. Andy Kouba, Head of the Department of Wildlife, Fisheries and Aquaculture and Dr. Will Evans, Head of Food Science and Nutrition. We have begun the search for a new head of the Department of Agricultural Economics and two Research and Extension Center Heads (Northeast Research & Extension Center located in Verona, MS and Coastal Research & Extension Center located in Biloxi, MS).

Based on the charge given to the MSU Extension Center for Continuing Education to provide non-credit training in environmental education and regulatory compliance and develop a plan to expand the industrial education offerings to business and industry, received administrative approval to create the MSU Extension Center for Manufacturing Advancement and Safety.

MSU Extension received an endowment from the Street family to establish the Dr. Joe E. Street Outstanding Extension Agriculture & Natural Resources Program Award to be awarded annually to an Extension Agent or Faculty member for outstanding performance in Agriculture & Natural Resource programming.

Dr. Steve Martin was named Associate Director for MSU Extension effective December 1, 2015. Dr. Martin's primarily responsibilities include leading the programmatic efforts for Agriculture and Natural Resources areas.

MSU recently hired four new Regional Extension Coordinators to lead and manage county operations within the four state regions. Drs. Curt Lacy (Delta Region), Byron Williams (Southwest Region), Linda Mitchell (Northeast Region) and Wayne Porter (Coastal Region) were selected for these administrative roles.

Submitted by Gary Jackson, Director
Mississippi State University Extension
April 13, 2016
NC State University 2016 State Report
A. Richard Bonanno, Director

NC Budget Issues: A 0.75% cut last October. So far no news on any new cuts or additions. We are hoping for a COL adjustment this year.

Agent Compensation: Agents salaries have gone up a bit trying to compete with both the Regional Agronomists from NC Dept of Agriculture as well as high school agriculture teachers. We are also rethinking our policy when an agent receives an advanced degree after being hired. Current there is additional compensation if the degree precedes being hired but not after.

Specialists Engagement: We are trying to do a better job of engaging and rewarding specialists. We are in the process of creating 10 new program teams. The first launches are local foods, animal systems, and plant systems which will be funded to provide support for specialists and for collaboration between specialists and agents.

Strategic Plan: Our strategic plan will be fully implemented by July 1, 2016. One of the final pieces will be the hiring of additional area specialized agents. These include 3 in commercial greenhouse and nursery, 3 in commercial fruits and vegetables, 1 in forestry, and 7 in food safety. There will be a total of 26.

We are also working on improved branding, especially for our combined efforts with NC A&T University at the county level.

A bond package was passed in March providing $85 million for a new plant sciences research building at NC State which will cost $170 million. Foundations and industry are providing the additional dollars. There will be a close connection with Extension to both identify research needs and to extend results.

Through a collaboration with Extension, Research, and the Provost’s office, NC State is hiring 40 new faculty in the College of Agriculture and Life Sciences over the next 3 years. Departments working within 4 “Systems” will formulate and prioritize positions and bring them to a College committee of the Associate Deans who will provide a final prioritization. Input to the Departments can come from any area including commodity groups and Centers within the College. There are an additional 12 positions already in the works bringing the number of new hires to at least 52.

The College is working on updates to our reappointment, promotion, and tenure discussions. Over the past several years, the expectations at the Departmental level and above have favored research at the expense of teaching, extension, administration, international programs, interdisciplinary activities, and entrepreneurism.
The College is concerned about the difficulty that high school students face getting into NC State. We have created many options including partnering with Ag High Schools, Community Colleges, our 2-year program, and spring delayed program. We are also considering creating a first Year general program so that students will not pick a major until sophomore year but not lose any time toward graduation.

Another current issue is large solar arrays on valuable farmland. Specifics include loss of good land, increased land rental costs, and both tax and insurance implications. The tax credit is high in NC. We are now 5th in US in solar production. Farmers are complaining to the NCDA and NC State is providing information to answer questions about both long and short implications.

Industrial hemp. Our industrial hemp commission still has not raised the $200,000 required by state law before an oversight board can be established to set up a permitting program.

Following are some highlights from our community development program:

In the first year, NC AgVentures Grant program, funded by the NC Tobacco Trust Fund Commission, awarded 23 farmer grants and invested $240,000 in NC communities. Grant impacts resulted in 72 new jobs and 100 sustained jobs; 11,114 acres of protected farm land, and to date, $188,000 of new income. 25 new grants totaling $240,000 were recently awarded. Local agents are pleased Extension has access to this seed money to implement innovative ideas and are seeing new clients come to Extension through this funding and education partnership.

USDA's Stronger Economies Together initiative, facilitated by CRD specialists, has resulted in the creation of regional economic development plans for 6 counties. Due to planning efforts, these regions have leveraged over $1 million to implement programs benefiting both the local agriculture and food manufacturing industries. CRD is currently facilitating the development of such regional plans for 9 more counties.

In 2015, USDA's Agricultural Marketing Service Technical Assistance project resulted in close to $800,000 in Farmers Market Promotion and Local Food Promotion grants to 8 attendees of grant writing workshops conducted by CRD specialists.
Administrative Changes

Dr. Ross Love retired as of April 30, 2015, but continued to work part time until March 31, 2016. As of March 1, 2016, Dr. Randy Taylor took the position of Assistant Director and State Program Leader for Agriculture, Natural Resources, and Community Development. Dr. Taylor was previously a professor in the Biosystems Department at Oklahoma State University.

Budget

The state budget for Extension was cut by 3.5% as of July 1, 2015. On October 1, 2015, we had a 2.5% salary program. We have not had a budget increase since 2010. Budget cuts and unfunded salary programs have added up to about a 15% cut over the past 6 years. This year’s cut and salary program now pushes us to over a 20% cut since 2010.

As of April 1, we have had four separate “role-backs” in funding totaling 9.56 percent of our FY16 budget. We are expecting at least a 10% cut in the FY17 budget but will likely not know the amount of the cut until close to the end of May. A cut of as much as 20% is possible.

As described in previous updates, we began nearly a year ago to plan for a cut in our funding of County Educator positions. This plan is now being implemented. In the past we have funded two Educators and a secretary in each county. We are now cutting this base funding to 1.5 Educators and one secretary in each county. Counties will have to increase their funding by approximately $40,000 over a 4-year period or lose staff. We anticipate that this will cause us to lose about 10 to 15 Educators across our 77 counties plus a number of secretaries and para-professionals. Some sharing of Educators across county lines in planned. In addition, we plan for the first time to charge a fee for 4-H membership. This fee is not yet set but is likely to be $20 to $25 per yearly membership. Selected other fees, both for 4-H and other programs, are being considered for increases or as new fees.

What amounts to a soft hiring freeze currently exists for vacant faculty positions. A buyout does not appear to be a part of the solution to this budget cut. Reserves will be used to cover deficits and attrition via retirements and resignations will be used to cut the budget.

Changes in our funding relation between Extension and the central administration are being explored and appear to have some traction. While “tuition offsets” will likely not happen, some potential exists for the academic budget to increase its funding of departmental administration, support personnel, and M&O that is now covered by Extension and research.
Programming Highlights

We recently completed a “cluster hire” in the area of forages. We hired three faculty, one each in the departments of Plant and Soil Sciences, Animal Science, and Natural Resource Ecology and Management. Extension has 1.25 FTEs of the 3.0 FTEs included in this cluster. Significant operating funds for these three faculty have been obtained through our interactions with the Climate Hub located in USDA Grazing Lands Research Laboratory in El Reno, Oklahoma.

Other faculty hires include a cropping specialist in Plant and Soil Sciences with emphasis on canola. Ten years ago, Oklahoma did not produce any canola. Today, Oklahoma is the second largest producer of canola in the United States. In terms of value, canola ranks among the top ten crops produced in Oklahoma. A major factor in the growth of canola production in Oklahoma was the joint Extension and Research effort between Kansas and Oklahoma, with Oklahoma developing the Extension component of the joint program.

Extension in Oklahoma has conducted several international exchange programs with Mexico. During the month of June in 2015, six college level agriculture students from Monterrey Tech in Mexico spent two weeks in Oklahoma. A major part of that stay included being hosted by a County Educator and “job shadowing” that Educator. In December of 2015, ten Extension personnel (consisting of primarily County Educators, but with several state specialists and staff included) spent 12 days in Mexico. Each was housed with a host family in Mexico and participated in cross-cultural training and took Spanish lessons prior to the trip.

We are investigating the potential for County Educators to teach college credit courses to high school students via concurrent enrollment (enrollment for college credit while still in high school). These courses would be introduction agricultural courses. Introductory courses in animal science, horticulture, plant and soil sciences, agricultural economics, and several college of Human Science courses, are being considered. They would be taught within selected high schools across the state. 70% of the tuition would go directly to Extension. These funds would be used to give Educators teaching the courses some “overload” pay, and the balance would be injected into the overall Extension budget.
Overview for Clemson University Cooperative Extension System

ASRED Spring 2016 Meeting

Since August 2015, our Extension System has been involved with helping farmers and Agribusinesses with the 1000 year weather event, which yielded a $375 million dollar loss for our farmers. Our agents were hard at work during and after this event in assisting our Agriculture community, as well as South Carolina Department of Agriculture, South Carolina Farm Bureau, South Carolina Legislators and the Governor. Our Communications Division put together a documentary of this event, which can be viewed at: http://www.clemson.edu/public/disaster_response/october_2015_flood.html

I would like to thank all the Southeastern Directors who offered assistance during this event.

For the first time in 18 years, our Governor requested over $800,000 in her executive budget for Clemson University Cooperative Extension. We were so used to having the Governor request a cut - or at best a zero increase. This is a clear indication of her knowledge of the work that our agents and specialists do each and every day for our stakeholders.

On April 6, 2016, we received our exit interview with USDA/NIFA Civil Rights Audit Committee. This committee interviewed agents, specialists, department heads, staff and advisory committee members. They were in our state for 10 days. Our preliminary results indicated work needed to be done on our civil rights statement and how it is used, with programs and employment. The committee praised our internal review process. I was very pleased with the exit interview considering the last time an audit was conducted in South Carolina was 2003.

Below is a brief summary of our program team work by team:

**Water Resources Program Team Update**

August 2015- April 2016  Compiled by: Callahan, Scaroni, Buckley

Major Programs Offered:

- Partnering to offer stakeholder engagement opportunities in the development of the SC Surface Water Availability Assessment, the first step in the development of South Carolina’s next State Water Plan.
- Hybrid Online Course, **Master Pond Manager Certification**, Fall 2015 and Spring 2016 offerings (More at http://www.clemson.edu/public/watershed/training/mpm/). Fifty-two professionals participated in 2015; registration is underway for Spring 2016.
- **Beyond the Silt Fence**, Columbia, SC. First offering of this program, seeking to introduce contractors to innovative practices and a combination of techniques to minimize soil loss and continued (costly) maintenance visits on construction sites.
- **What’s in Our Waters (WOW)**, a youth water quality monitoring and mentorship program began at Clemson University will be launched in the Midlands in Spring 2016. This program pairs college
students with classrooms to sample and analyze results of water quality monitoring data collected on or near school grounds.

- Teacher Training in Richland County schools on stream ecosystems and monitoring.
- **Certified Erosion Prevent and Sediment Control Inspector** Courses offered.
- **Certified Stormwater Plan Reviewer** Courses offered.
- **Carolina Yards** workshops and presentations continue to address simple actions on residential landscapes that protect water resources.

Educational Demonstration Sites Installed (for increased public awareness of best practices):

- Rain Gardens, Sumter, SC, Hanahan, SC
- Floating Treatment Wetland, Columbia, SC
- Cistern, Pendleton, SC
- Vegetated Shoreline Buffer, Florence, SC, Murrells Inlet, SC, North Charleston, SC
- Erosion Control Demonstration, Columbia, SC

Mass Media:

- 17 new instructional videos on rain gardens – from design to maintenance – at [www.youtube.com/carolinaclear](http://www.youtube.com/carolinaclear).
- Stormwater Pond Resources and Management Best Practices commercial aired in the fall on local channels in nearly every Metropolitan Statistical Area, and aired with community news segments in the Myrtle Beach area from Spring 2015 until February 2016. *Estimated viewership totals 2.9 million.*
- 15 billboards continue to advertise educational opportunities and resources of the Clemson Extension Carolina Yards program throughout the state.

Research Contributions:

- Culminating in a fact sheet, a graduate student worked alongside Extension Agent mentors to test and evaluate the safe use of harvested rainwater on edibles.

Team Meetings:

- September 2015, Clemson, SC
- April 2016, ACE Basin

**4-H Program Team Update**

- We have hired nine new 4-H agents and have two more are in the application process.
- Increased our membership from 82,000 to 94,000.
- Conducted the Sporting Clay Tournament. This is the annual fund raiser for 4-H to support our national trips and awards. We raised $16,000 for the program.

**Leadership**

- Two teens and a 4-H Agent attended the Southern Region Youth Leadership Summit in Tennessee.
- More than 200 youth participated in the 4-H Legislative Day. This year was highlighted by a breakfast for the House and Senate Ag Committees, 4-H’ers were recognized in the House and Senate. Jennifer Sirangelo, CEO of the National 4-H Council, visited South Carolina during Legislative Day activities. Kristine Vernon, Katie Shaw and the National winning 4-H Horse Bowl Team were recognized by the House and Senate, and at the 4-H luncheon.
- Junior 4-H Weekend was held in February. The theme was “Color Your 4-H Imagination.” The weekend is designed to allow 4-H’ers to explore various projects and learn more about opportunities in 4-H. Youth are involved in a community service project; this year’s project was “Sole Hope”, which is helping provide shoes for youth around the world utilizing old jeans and milk jugs.
- Senior Teen Weekend was held in March. The theme was “4-H Olympic Games.” The goal of the weekend is to motivate youth to participate in 4-H events throughout the state. This year’s service project was a 4K run and fundraiser for Special Olympics.
- Eight youth and one volunteer attended National 4-H Congress and four youth will be attending National 4-H Conference in April.

**Healthy Lifestyles**

- South Carolina conducted its annual Healthy Lifestyles Competition during the State Fair. We had 3 Cloverleaf Teams, 3 Junior Teams and 4 Senior Teams competing. The competition is focused on food safety and preparation, nutrition, being able to read a label, determining the cost per serving and understanding the need for physical activity. The winning Senior Team receives a trip to the National Seafood Cook-off in New Orleans.
- The 4-H Healthy Lifestyles Summit was held in January. Ten teams, comprised of 3 youth and a coach, received training on a curriculum to be implemented in their home counties as Summer 4-H Day Camps. We had 3 professional chefs and the Culinary Arts Department at Clemson involved in the training.
- Fourteen counties received mini grants to conduct Healthy Lifestyles programs through Youth Voice Youth Choice Grant from Wal-Mart in their counties.
- Health Rocks! is being implemented throughout South Carolina as a healthy lifestyle choice for youth. Health Rocks! is aimed at 8 to 16 year olds, with the goal of bringing youth, families and communities together to reduce tobacco, alcohol and drug use by youth. Health Rocks! is conducted through a grant from Altria.
- Nutrition videos are being piloted in 20 schools throughout the state this spring. The 5 minute nutrition videos provide a nutritional fact, a physical activity and a recipe. In addition, the families will receive a newsletter once a month reinforcing the information shared with the youth.
Natural Resources

- South Carolina 4-H has finished the 3rd year of our Wildlife Food Plot Project, an independent study project providing hands-on experience in natural resources and environmental education. There were 108 participants from across the state with external sponsorship for the project provided by Wannamaker Wildlife and Quality Deer Management Association. The University of Arkansas has been collaborating with 4-H Agents on our Natural Resources Committee to unveil their project with QDMA partnership this fall.
- The annual 4-H Forestry Clinic was held in March. Fourteen youth participated. The team to compete in the National Forestry Invitational in West Virginia in 2017 was selected. It was also a practice event for the 2016 team.
- A “Back to Nature” Disney Grant was conducted in Charleston County for inner-city youth. Through this program, 433 youth learned about the importance of the environment through a series of lessons related to ecology, ecosystems and wildlife, interactions, and abiotic factors and a nature related field trip to the Center for Birds of Prey in Awendaw.
- Registrations are underway for the South Carolina 4-H Small Garden Project, which has added a group division to allow for school and community group participation.

4-H Science

- National Youth Science Day was promoted in South Carolina 4-H at the State Fair and 34 other events across the state. Over 200 volunteers facilitated these events, coordinated by 16 agents, to reach just under 3,000 youth in the month of October.
- 4-H Science on the Move has completed 90 events reaching 3,800 youth this year.
- South Carolina 4-H Engineering Event will be held April 9th at Orangeburg-Calhoun Technical College with approximately 250 youth participating. enLIGHTen SC is the Corporate Sponsor.
- South Carolina developed a proposal called “Hone Your Drone” for the 4-H National Youth Science Day Experiment.
- Received the National Mentoring Program for the 6th year. This allows us to continue our Tech Wizard Program in Sumter, Charleston, York and Lancaster Counties and our Families of Promise program for the Catawba Indian Reservation.

4-H Livestock Program

- South Carolina has had another successful year in growing our youth livestock programs. The 4-H Livestock Committee is re-structuring the SC Livestock program to include county level grassroots efforts that will help to strengthen each of the projects.
- We have implemented a quarterly Livestock Newsletter highlighting various projects and upcoming events and registrations
- National Winning Horse Bowl Team
- Conducted State Horse Bowl and Hippology Competitions in February. A total of 39 youth and 23 teams competed in the Hippology Contest and 95 youth and 19 teams competed in the Horse Bowl Completion
- We had nearly 30 participants in the Dairy Heifer Project in 2015. We are continuing to grow the Dairy Heifer Project with 33 youth registered to participate for the 2016 year. The 2016 Dairy Heifer Project kick-off will be held in Saluda, SC on Saturday April 23rd.
- The SC FFA & 4-H Meat Goat Project had another successful year. This is our largest youth project with nearly 100 youth registered in the project. The Goat Project advisory board is committed to the youth of SC and continues to seek opportunities to grow the project. The project awarded scholarships to two senior 4-H members for their outstanding work and participation in the 2015 Goat Project.
- Approximately 50 youth participated in the 2016 Cattleman’s Boot Camp on March 24th, the first to include a 4-H component. The purpose was to expose youth on topics related to the Beef Industry and give them real-world experience with these topics.
- The SC Barrow Project and the Market Steer Project are also growing and plans for 2016 projects include expanding the project to collect carcass data. Our goal for both of these projects is to provide youth with valuable data to help market their animal to potential buyers in the future.
- Registration is currently underway for the Goat, Market Steer, and Barrow Projects.

**Volunteerism**

- The 5th annual Volunteer Leader’s Symposium was held in August with 86 volunteers.
- Four volunteers attended the Volunteer Conference of Southern States in Georgia.
- We have implemented a quarterly volunteer newsletter with monthly supplements to highlight upcoming programs, share success stories, and provide monthly, club-activity lesson ideas

**New Agent Mentoring Program:**

- Clemson Extension Director, Dr. Tom Dobbins, charged Dr. Meghan Wood, Mrs. Karissa Ulmer and Mr. Danny Howard with developing a statewide, new agent-mentoring program. The 2-day, kickoff orientation for the program was held at the Clemson Outdoor Lab with 40 of our newest agents with less than 3 years of experience. Topics included budgeting, time management, working with media and grant writing. The committee is continuing to develop the statewide program to include individual mentoring and professional development programs for all new agents working with Clemson Extension.

**Forestry and Natural Resources Team Report**

- The Forestry and Natural Resources team is currently being restructured. A new plan has been developed and will be implemented starting on July 1st. Changes to the structure will range from new program team leaders to the creating of a wildlife team and a forestry team.
- As part of the South Carolina New and Beginning Farmers program (SCNBFP), a forestry component is being added to the program. Forest land has the potential to provide a source of income and with a little management can greatly increase the value of your timber, wildlife habitat and ecosystem. The forestry unit is intended for new property owners, beginning farmers and the next generation of forest landowners. Topics covered will range from the economic
impact of forestry in South Carolina, forest management, agency services, financial assistance and tax incentives.

- Developing a Forestry 101 for New and Inexperienced Forest Landowners. This will be an 8 hour course that will be hosted in a classroom setting and moved throughout the state. Topics covered will be landowner objectives, management, forest health, harvesting and planning for the future. Anticipated date to begin offering is Fall 2016.
- Hosting a “Growing Our Future” workshop in May. Targeting the professional consulting forester along with active and engaged landowners.
- South Carolina 4-H Forestry Clinic at the Webb Center opens the world of forests to youth. This is a weekend camp that provides an excellent opportunity for high school age youth to learn more about forestry and forest practices. During the clinic, youth will gain hands-on experience from Clemson Forestry and Natural Resources Extension Professionals. The clinic will focus on tree identification, tree measurement, compass and pacing, and other forestry skill areas.
- Through Title III funding, working in Oconee County to provide Firewise programing and education to communities and homeowners in high risk areas. Homeowners can take ownership of protecting their homes from damage or destruction from potential wildfires.
- Extension and the Center of Heirs Property Preservation have partnered to conduct quarterly workshops that promote sustainable use of forest land to provide increased economic benefit to historically under-served families through sustainable forestry education. Funding has been provided from the US Endowment for Forestry and Communities (USE). Along with the quarterly workshops, we have hosted several focused workshops through the coastal region. Most recently assisted with “Women Landowners and Climate Change Workshop” hosted through PINEMAP, North Carolina Agricultural and Technical State University and NC State University.
- Aquatic Ecosystem Management classes were offered during the past year. These courses provided detailed information on best management practices for water quality, fisheries management, and aquatic plant management. Several programs focused on incorporating integrated pest management practices for developing sustainable and environmentally friendly aquatic weed management programs for private waters in South Carolina. One program focused on managing toxic algae blooms in livestock operations.
- Nuisance wildlife programs were offered across the state. These programs focused on the history, biology, and management of white-tailed deer, wild hogs, beavers, and coyotes. Programs included detailed information on reducing damage created by the above mentioned species. Exclusion, repellants, contraceptives, lethal and non-lethal removal, and habitat alterations were thoroughly explained. Participants were able to hear the pros and cons of each practice, and left with the knowledge needed to develop integrated management plans to reduce wildlife damage to their properties and crops.
- Coyotes first appeared in South Carolina about 30 years ago and continue to expand in numbers. Coyotes can have a significant impact on wildlife and domestic animals. Extension and SC Department of Natural Resources are hosting a series of workshops across the state that will provide basic information on coyote biology as well as hands-on demonstrations for coyote trapping.
- Working across the historic range and with the three local longleaf implementation teams to support and provide education and outreach on longleaf pine restoration. Promoting prescribing...
burning with burn and learn workshops that demonstrates the proper use of fire and includes live burning exercises.

- In conjunction with the SC Prescribed Fire Council worked with getting Gov. Nikki Haley to proclaim March 2016 Prescribed Fire Awareness Month in South Carolina. This official designation brings attention to the benefits of controlled burning.

- Working on establishing a way to capture the pricing and yield date for the forestry section of Farm Gate. It appears we will have to capture these numbers on either a statewide or regional level the first few years and hopefully find a way to capture it on a county level moving forward.

- Fostering the stewardship of South Carolina’s urban and community forests through education and networking. Conducted seminars and workshops ranging from arborist based training to community-based educational sessions.

AGRONOMIC ROW CROPS TEAM ACCOMPLISHMENTS
August 1, 2015 to April 1, 2016

REGIONAL FIELD DAYS: Team members organized and participated in 3 large field days which featured agronomic crops. The Simpson Station Field Day was held on August 22nd and included an “Agronomic Crops Tour” with 40 attendees. On September 3rd a Peanut Field Day was held at the Edisto REC with 250 attendees. On September 10th the Pee Dee REC had their Fall Field Day with agronomic crops featured on several tours with more than 200 attendees.

STATEWIDE MEETINGS: Statewide events included: a workshop on “Utilization of Dicamba and 2,4-D Resistant Cotton” in Santee on December 15th with 75 attendees; The State Tobacco Meeting on December 16th in Marion with 90 attendees; the “State Cotton Meeting on January 26th in Santee which had over 150 attendees; and the “State Peanut Meeting” on January 28th in Santee which had over 300 attendees.

TEAM MEETINGS: The annual Certified Crop Advisors meeting was held November 17, 18 & 19 in Santee. This is organized by Charles Davis, Calhoun County Agent and attended by 45+ agents and consultants. We consider this our “Fall Agronomic Row Crops Team In-Service Training”. Our annual spring “Agronomic Crops Team Planning & Educational Meeting” was held on March 22nd at the Sandhill’s REC in conjunction with the Agribusiness team with 40 attendees.

COUNTY/REGIONAL MEETINGS: Row Crop Agents organize and hold many meetings. Agents give talks at and help organized literally several hundred local and state wide meetings for local farm dealerships, Young Farmer groups, FFA and school groups, local and state Farm Bureau Meetings, and local civic and business groups. The following is an approximate list of those conducted primarily by Clemson Extension given by general topic:

COTTON FIELD DAYS: One was held in Colleton County with 20 attendees

PEANUT MATURITY CLINICS: were held in Dorchester, Calhoun, Florence, Williamsburg, Hampton, Florence, Barnwell and Bamberg counties with over 150 attendees.

INDOOR ALL CROPS: meetings were held in Anderson County, Pickens County and Chester County with a total of 60 attendees.

INDOOR COTTON MEETINGS: were held in Dorchester, Hampton, Marion, and Williamsburg Counties with a total of 240+ attendees
INDOOR PEANUT: were held in Dorchester, Allendale, Marion, Florence and Sumter Counties with a total of 300+ attendees.

INDOOR SOYBEAN: one was held in Orangeburg County with 50 attendees.

INDOOR TOBACCO: meetings were held in Marion, Florence, & Williamsburg Counties with over 200 attendees.

INDOOR SMALL GRAINS: meetings were held in Sumter & Marion Counties with 50+ attendees.

PUBLICATIONS: Printed material produced during this time frame included: the Wheat Cheat Sheet, 300 copies distributed; the Peanut Money Maker, 350 copies distributed; O.V.T. Test Results for Cotton, Corn, Soybean and Small Grains distributed via the internet; and the Pest Management Handbook, 250 copies sold.

SPECIAL PROJECTS: Row Crop Agents in the tobacco region conducted the “Tobacco Associates Referendum” by establishing voting sites in each tobacco-growing county on January 27th.

INVOLVEMENT OF ROW CROP AGENTS IN RESPONSE TO THE “1,000 YEAR FLOOD”:
The extensive flooding which occurred in South Carolina during October caused everyone on the team to refocus their efforts in order to help our growers in any way possible. The Edisto REC Fall Field Day on October 8th was rearranged at the last minute to cover various aspects of flood damage to our South Carolina row crops. More than 150 attendees listened to specialists and the Commissioner of Agriculture provide estimates of the levels of damage caused by the flood. In the next few weeks Agronomic Row Crop agents helped the Clemson video group interview growers to put out a 15 minute video showing the devastation brought about by the flood. Hannah Mikell, Jacob Stokes and David DeWitt spent several days touring the video crew through the disaster area and being interviewed themselves on film to help the audience understand the breadth of the damage. This video was viewed by thousands of people and portions used in many newscasts. Agronomic Row Crop agents then conducted a systematic survey of row crop growers across the state to get a realistic assessment of the damage to crops. They also worked with growers to fill out “Crop Insurance Letters” for growers in the areas affected by the flood. These letters were required by the insurance company to verify grower losses. Agronomic Row Crop Agents help arrange and host flood related meetings where growers could relate their personal stories and state officials could update the public on their efforts to get aid. Many of these were held. Two of the bigger ones were in Manning: the first was held on October 26th and a follow up meeting on November 12th was attended by over 400 people. A third meeting held at the Horry County Coop on November 4th had over 160 people in attendance. In addition to these efforts to work with large groups the Agronomic Row Crop Agents, especially in the Northeast corner of the state, have worked extensively to promote the “Plant it Forward SC” program which is a nonprofit group set up through the SCDA to aid farmers victimized by the October floods. In an effort to help growers react to the physical effects of the flood on their field a special meeting on “Managing Soil Fertility After the Flood” was held in Santee on February 18th with 125+ attendees.
BY THE NUMBERS AGRONOMIC ROW CROP TEAM MEMBERS:
Held 14 field days and workshops with 660+ attendees;
Held 5 statewide crop production meetings with 740 attendees;
Held 18 county/multicounty crop production meetings with 850 attendees;
Updated 7 publications and distributed over 1,300 copies;
Helped produce and star in one video on the flood;
Helped organize numerous flood related meetings with over 1,000 attendees.

Food Safety and Nutrition Program Team Report – August 2015 to April 2016

1. Team Hiring: one new FSN Agent and four new EFNEP NEAs
   a. Four new EFNEP NEAs – Each serving the one of the following counties: Allendale, Dillon, Williamsburg, Marlboro Counties
   b. One new FSN Agent (Registered Dietitian) replacing an agent that quit. Serving Counties Richland, Kershaw, Fairfield

2. Programs Offered and People Reached: 401 programs reached nearly 5,007,829

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<td><strong>Total</strong></td>
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<td><strong>5,007,829</strong></td>
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3. **Media Events (MIG, Hot Topics): Reached Over 2 Million**
   
a. Agents appeared 8 times on the *Making it Grow* TV Program through ETV from August 2015 to April 2016. Estimated outreach per show is 250,000 individuals. Presentations combine food safety and nutrition in healthy recipes. **Total Reached > 2 MILLION**

4. **MOUs (LGOA, SCDE, FCL Project) and other collaborations: Five MOUs or Collaborations**
   
a. **South Carolina Department of Education (SCDE), MOU to deliver ServSafe to School Food Directors** in SC to ensure safe food handling. This also assists them with meeting the SC Department of Health and Environmental Services July 2016 regulation requiring “One manager or person with supervisory responsibility per facility (permit) is required to be certified by a food production manager certificate (2-102-12).”
   b. **Lieutenant Governor’s Office on Aging**: MOU to deliver ServSafe classes at a reduced price to Senior Centers serving Community Meals; Nutrition Education to Sr. Centers offered by agents
   c. **York County HIV Clinic**: MOU to deliver nutrition therapy by Registered Dietitian Angela Forbes to HIV patients requiring Medical Nutrition Therapy
   d. **Culinary Partners**: Collaboration to deliver nutrition education to school foodservice workers in coordination with a certified chef
   e. **SCDE Grant on Smart Lunch Rooms**: Collaboration between SCDE, Clemson, and Family and Community Leaders on use of behavior psychology to promote healthy food choices among elementary and middle school children with nutrition to use low cost environmental changes to promote healthy food choice.

5. **Technical Assistance Provided to Commercial Food Industry – 21 Companies, Councils or other**
   
   Humble Roots (Cheese Spread) – Greenville, SC (Thomas)
   Porizo Sauces, hot fill project, - Charleston, SC (Thomas)
   SealedAir Cryovac, tomatoes and mango project – Duncan, SC (Thomas)
   National Ice Cream Retailers Association, Board of Directors – Nationwide (McGregor)
   National Ice Cream Retailers Association, Allergen Project - Nationwide (McGregor)
   SC Peach Council, Antimicrobial Project – Columbia, SC (Northcutt, Parisi)
   Titan Farms, Inc., Peach Puree, Peach cups – Ridge Springs, SC (McGregor, Dawson, Northcutt)
   Nutramax, Product Development, Lancaster, SC – (Mcgregor)
   Electrolux, long-term shelf-life freezing project – Anderson, SC (Dawson)
   Electrolux, fresh produce shelf-life project – Anderson, SC (Dawson)
   SC Peach Council, peach skin power and shelf-life – Columbia, SC (Dawson)
   Diamond V, nutrition additive to reduce pathogens in animals - Cedar Rapids, IA (Northcutt, Dawson and Parisi)
   3Fishes, Seafood Sanitation and Packaging – Charlotte, NC (all faculty specialists)
Michelman, Inc., Food Packaging – Cincinnati, OH (Whiteside)  
Technical, Inc., Thermal Processing – New Orleans, LA (Whiteside)  
SPF Petfood Flavors, Produce Shelf-life – Hodges, SC (Whiteside)  
Harvest Moon, Baby Foods – Greenville, SC (Whiteside)  
Pamlico Packaging Co. (Requested assistance by NCSU), Packaging – Grantsboro, NC (Whiteside)  
University of Alaska, Cooperative Extension Service, Thermal Processing Workshop (Whiteside)  
Teinnovations, Inc, CPET Retort Process – Warrenville, IL (Whiteside)  
Westrock Company, Retort Trial at Clemson – Richmond, VA (Whiteside).

6. **Team Publications:**
   


7. **Team Trainings:**
   
a. October 2015 (Columbia, SC): Target audience = All FSN Agents (12 attendees) Topics covered were: Listeria Update (5 new non-pathogenic species discovered); Overview of Food and Drug Interactions related to Seniors; Thermal Processing of Foods (Canning Update and Commercial Thermal Processing)

b. December 2015 (Columbia, SC): Target Audience = All FSN Agents (24 attendees): Topics covered were: Ice breaker activities for educational programs


d. February 2016 (Clemson, SC): Target audience = All FSN Agents (16 attendees); Topics covered included Genetically Modified Foods, Dietary Guidelines for Americans (2015-2020), and SC Smarter Lunchrooms Initiative (Collaboration with SCDE Foodservices)

e. March 2016 (Columbia, SC): target Audience = Horticulture and FSN Agents hand selected to be trained on the FSMA Produce Safety Rule (17 attendees).
f. *March 2016* (Adobe Connect): Target audience = EFNEP NEAs (13 attendees); trained on lesson topics and materials that would supplement and support March-National Nutrition Month curriculum.


h. *March 2016* (FCL District Meetings): Target audience = FCL members (~240); trained on smarter lunchroom concept and procedure for completing scorecard data collection tool.

i. *March 2016* (Greenville, SC): Target audience = FSN Agents (7 attendees); trained on home canning.

8. Other:

USDA-NIFA Funded Grant for $1.2 Million. Fourteen University Collaboration to form a Southern Regional Extension Training Center on Food Safety, including fresh produce. Approximately $58,000 to Clemson University for Training and Certification.

Three team members attended and became Certified Food Safety Instructors (Northcutt, Baker and Whiteside) for the FSMA Preventative Controls for Human Food.

### Livestock and Forage Program Team Update

**Statewide/Regional Program Delivery**

- Launched Clemson Extension Livestock and Forages Facebook page
  - 928 followers
  - Average weekly reach of 1100
  - Program advertisement reach over 8000

- Development of *CU in the Pasture*, the official newsletter of the Livestock and Forage Team – newsletter reach is approaching 2500.

- South Carolina Jr. Beef Round-Up – 154 youth from 4 southern region states participated showing almost 250 head of beef cattle.

- Confined Animal Manure Management (CAMM) program is a state mandated certification program offered through Extension. Since 8/1/16 the following programs were delivered:
  - 2-hour recertification programs – 27, attendance 808 persons
  - All-day certification program – 2, attendance 117 persons

- Bermudagrass Hay Production and Outlook Workshops were conducted in Sumter and Marion counties with 52 persons attending.

- Clemson Extension Calving Simulator Program
  - 35 demonstrations
  - 3 different states across the Southern Region
  - Almost 3,000 producers and youth impacted

- Master Cattleman Sire Seminar Series conducted in Upstate South Carolina
• Bovine Artificial Insemination (AI) School – Multi-day certification training for development of proficient AI technicians.
• Area agents established multiple on-farm plots for herbicide, forage, and grazing demonstration.
• Pasture Ecology Workshop for producers/NRCS/Industry (Attendance – 40)
• Clemson Extension Cattlemen’s Boot Camp – program designed to encourage communication and interaction of youth and adult producers interested in the future of the beef industry. (Attendance – 84)
• Flood outreach meetings conducted in the lower part of the South Carolina in response to the October 2015 flood. Agents assessed thousands of molded/damaged hay bales, and continue to work with producers in the recovery efforts.
• Development of Certificate-based Extension Education Programs: This program encompasses a true Extension program and requires producers to implement knowledge gained on their operation prior to receiving certification.
  o Master Beef Producer
  o Master Small Ruminant
  o Master Backyard Poultry Producer
  o Master Equine Rancher
• Including programs listed above and other county/regional programs, total Livestock and Forage Team direct contacts = 29,152

**Horticulture Program Team Activities – August 2015 – Present**
Powell Smith, PhD, Horticulture Program Team Leader

The Horticulture Program Team works on projects collected in the Clemson Extension Service Plan of Work under the Initiatives 610 and 620.

**INITIATIVE 610: SUSTAINABLE AGRICULTURAL PRODUCTION SYSTEMS FOR HORTICULTURE**

*Project 611:* Integrated Crop Management (ICM) – Horticultural Crops
*Project 612:* Muscadine Development
*Project 613:* Collard Pest Management
*Project 614:* Peach Pest Management
*Project 615:* Landscape and Ornamental Plant Pest Management
*Project 616:* Organic Production Systems – Horticultural Crops

**INITIATIVE 620: ENVIRONMENTAL HORTICULTURE EDUCATION**

*Project 621:* Environmental Horticulture Education for Horticulture Professionals
*Project 622:* Master Gardener Education and Impact
*Project 623:* Consumer Education in Environmental Horticulture
Agents are to plan 67% of their time (~ 154 days for a 100% extension appt.) I ask that agents on the Horticulture Program Team plan ~ 80 days in the 600 Initiatives.

Twenty-three County Agents have planned over 2000 days of horticultural program activities in 2015-16.

**Programs and Activities to date:**

1. Apple Production meeting
2. Pecan Production meetings
3. Peach Production meetings
4. Nursery Production meetings
5. Strawberry Production meetings
6. Vegetable Production meetings
7. IPM and Sustainable Practices seminars
8. Agents presented at regional commodity events in Myrtle Beach, SC, Savannah, GA, and Charlotte, NC
9. 6 County/Area Master Gardeners classes conducted
10. MG On-Line as well
11. “Sustainable Backyards” program offered on-line
12. School Gardening Program offered with necessary introductory material on-line – several new sites around the state
13. 10 Calibration schools for landscape and nursery operators
14. 3 Core and Category Exam Study Sessions for Commercial Pesticide License applicants
15. 5 Private Applicator Trainings and License Exams for Private Pesticide License applicants
16. 6 Home and Garden show appearance or clinics
17. 25 Consumer Horticulture/Home Garden seminars or other events
18. Three horticulture program team meetings with in-service training components
19. Four weekly airings of ‘Making It Grow’ monthly, highlighting horticultural and agricultural activities around the state with live appearances of horticulture agents.
6 major on-farm research/demonstrations around the state with key growers in fruit and vegetable commodities (two peach, one tomato, one collard, one broccoli, and one strawberry)

Enlisted 6 growers to become involved in the SE Climate Network – Strawberry Advisory System

Many home and farm visits over the course of the year with extra visits required in the flood-affected areas of the state this year

Our agents also speak at garden clubs, Master Gardener events, civic groups, and other venues for spreading horticultural education.
ADMINISTRATIVE HIGHLIGHTS

Increase in Promotion Amounts for Agent Titles
Effective July 1, 2016, the salary increases for UT Extension agents who are promoted from Agent I to Agent II, and from Agent II and Agent III, will be increased by 10% of the employee’s base salary on June 30 of the year of promotion. This change in our promotion amounts is possible due to savings resulting from policies implemented January 1, 2014, requiring counties to fund their share of benefit costs for UT county positions.

This change will be another step forward in achieving our strategic goal of investing in UT Extension’s human capital. It also helps to address the salary compression that has occurred as our minimum starting salaries for agents have risen. In addition, this provides agents with the same promotion percentage increase that faculty and other exempt professionals receive when they are promoted.

FY17 Budget
The Tennessee State budget is not yet finalized for FY17, and no final compensation plan has been developed. Draft plans, based on proposed state budgets, include a 1.5% across-the-board increase combined with a 1.5% merit/equity increase pool. These increases will be funded by an expected 3.25% budget increase, which will also cover increases in health insurance and other benefits. The overall state economy remains strong.

Human Resource Officer Search
Ms. Izetta Slade, who served as our interim HRO after Dr. Herb Byrd’s departure, has accepted a position with the University of Tennessee Office of Equity and Diversity. A search committee has been appointed and a position announcement will be available very soon. Dr. Shirley Hastings has agreed to serve in this role on an interim basis, and is also chairing the search committee. We hope to have a new HRO in place this fall.

New 4-H Center
Lone Oaks Farm in Middleton, Tennessee is our newest 4-H Center. The acquisition cost was approved in the FY16 budget, and we closed on the property December 1, 2015. Three teams are developing business plans for the new facility: youth education and camping, agricultural operations, and activities, events and conferences. Small group meetings, youth STEM camps, environmental programs, and retreats are being conducted at Lone Oaks Farm. Fund-raising will be a major focus for additional capital facilities development. We continue to also invest in our other three 4-H Centers, emphasizing increased participation in summer camping programs as we work towards bringing a fourth camp online. http://www.loneoaksfarm.com/
PROGRAM AREA HIGHLIGHTS

4-H Youth Development: Investing in STEM Education
Our 4-H programs go hand-in-hand with STEM curriculum, spurring Tennessee youth to discover valuable skills. Experiential learning opportunities, like our GPS and GIS program, get children job-ready and enhance the future workforce of our communities. Summer 4-H camping programs provide an excellent channel to promote STEM education, while encouraging physical activity and a love of the outdoors. In December, 2015, we added a fourth 4-H facility, enabling more youth to gain valuable camping experiences.

Agriculture and Natural Resources: Focused on Sustainability
Precision agriculture technologies cut waste, leading to increased production and reduced costs on the farm. At UT Extension, we have developed a multidisciplinary program that delivers precision agriculture management strategies to Tennessee farmers. Through our assistance, the adoption of precision ag technologies has reduced off-target application errors on more than 700,000 acres and saved our state’s producers almost $1 million in seed costs.

Family and Consumer Sciences: Aiming for Better Health
At UT Extension, we’re targeting the chronic disease epidemic. As the recipients of a nearly $1 million grant from the U.S. Department of Health and Human Services, we’re enhancing outreach services in four rural counties (Haywood, Humphreys, Lake and Lauderdale) to reduce rates of obesity, diabetes, heart disease and stroke. With Tennessee State University Extension, county health departments and local school districts, we’ll improve residents’ access to health foods and physical activity opportunities.

Strategic Plan Implementation
The UT Extension Strategic Plan implementation has progressed successfully over the past 6 years. Several of our implementation teams have completed their assignments, and procedures and recommendations from those teams are being institutionalized. A county director training curriculum has been developed, with 30 newly-appointed county directors scheduled to receiving this training. Sixty-nine mentors have been trained, and 30 have already been assigned to mentor new employees. Based on feedback from employees across the state, stress has been identified as a high priority concern. To address this issue, a full-day workshop is being offered to help employees develop skills to manage stress and encourage life balance. Our Enhancing Volunteerism team has created a comprehensive volunteer application and database, and has developed training of ways to recruit and engage volunteers.
Administrative
Current focus has been on the revisions of annual employee evaluation plans, career ladder and completion of compensation plans. Depending on the outcome of FLSA (which under existing guidelines would impact 300 positions and potentially impact reduction of at least 55 positions) plans are for a 3% increase this fall with 1.5% add to base merit and 1.5% one-time-only merit. Budget preparations for the next biennial state budget are underway with special funding requests for the following:

Healthy Texas 2025 - $10 Million:
Texas A&M AgriLife Extension Service will provide leadership to expand the Healthy South Texas pilot program, making it available in all Texas counties. This will be a comprehensive effort, conducted in partnership with the Texas A&M Health Science Center and other Texas A&M University System entities. In order to improve our state’s health and spend our resources most effectively, emphasis must be placed on efforts to keep people healthy as opposed to only treating them once they become ill. Prevention is one of the state’s best ways to help Texans live longer, healthier lives and increase our state’s productivity. Healthy Texas will organize evidence-based education and interventions to prevent disease and improve public health. Implementation of the initiative will occur through AgriLife Extension’s one-of-a-kind statewide network of professional educators.

Protecting our Agriculture from Emerging and Invasive Pests – $5.6 Million:
The Protecting our Agriculture Initiative will address critical emerging issues in livestock, crops and public health:

- **Livestock health:** Texas farmers and ranchers must prepare for emerging threats from animal diseases, new regulations on antibiotic feed additives and other issues important to the health of our $18 billion animal industry at a time when veterinarians are increasingly attracted to urban practices and rural areas are losing vets. Increased Extension efforts in veterinary science will be needed to assist ranchers, feedlots; dairies and poultry operations cope with new regulations and to protect the health of our food animals. Recent rules on feed additives will bring significant change to confined animal operations.

Four veterinary specialists and support staff to be located at Amarillo, Stephenville, College Station and Corpus Christi to work with the animal industry and veterinarians to enhance technology transfer, conduct field trials of new products, interpret BMPs and compliance issues with new regulations. Two veterinary program specialists will work with 4-H and public schools to train the upcoming generation on veterinary careers.

- **Crop health:** Critical and complex issues face Texas agriculture. The occurrence of herbicide resistance in weeds has increased dramatically across the state, greatly increasing the expense of production of crops, along with loss of yield and quality due to completion and quality losses. Increased cross border movement of vegetables, fruits and plants greatly increase the probability of new pests, such as the sugar cane aphid which infested Texas sorghum field in 2013 and the projected arrival of the Old World Boll worm, as well as a number of potentially devastating plant diseases make it critical to have a well-equipped diagnostic laboratory, and trained pest management educators as boots on the ground to work with farmers and the agricultural industry to identify the pests, develop management strategies.

Impacting Urban Youth through STEM Education - $4 Million:
With over 75% of the population of Texas currently living in the 25 most populated counties, the need for expanded Extension education in our urban and suburban areas is ever increasing. STEM education will be enhanced through the replication of highly successful programs through partnerships with public schools and after school programs. Working with students from 3rd to 12th grade, After-School Coordinator positions will educate youth to build science, technology, engineering, and mathematics (STEM) mastery through the use of school based curriculum and the Texas A&M AgriLife Extension Service curriculum.
**Programmatic**

**4-H Youth Dig In to Honor Texas A&M Forest Service:**
On October 10, during National 4-H Week, our Texas 4-H Youth Program held its sixth annual day of service, called “One Day 4-H.” The statewide event engaged more than 11,000 4-H youth and adults in 432 community service projects. In honor of the Texas A&M Forest Service centennial, AgriLife Extension and Forest Service staff teamed up to provide 5-foot bur oak trees for planting projects. Last report, we learned that 4-H youth in at least 197 counties planted trees and committed to care for them, and also distributed more than 5,000 tree seedlings at local events.

**First Statewide Quail Symposium Conducted:**
To reverse the decline of quail in Texas, the 83rd Texas Legislature supported an initiative to advance new research and educational programs. The initiative led to a first-of-its-kind Statewide Quail Symposium, September 16-18, in Abilene. The event, including a rangeland tour, was organized by the Texas A&M AgriLife Extension Service, Texas Wildlife Association and Texas Parks and Wildlife Department. It drew 263 participants and featured 23 presentations, as well as an address by Chancellor Sharp—all with a focus on quail management and conservation for the benefit of Texas land owners, managers and hunters.

**Action in the Aftermath of Winter Storm Goliath:**
December’s Winter Storm Goliath triggered a livestock search and rescue effort that involved Extension county agents across the Texas Panhandle, including the 10 most impacted counties—Deaf Smith, Parmer, Bailey, Lamb, Castro, Hockley, Gaines, Cochran, Yoakum, and Terry. Some 23,000 head of livestock died (about 66 percent dairy cattle, as well as cattle, calves, and stocker cattle).

County agents helped assess feed and hay needs and coordinate resources. In addition, Extension’s outreach dealt with carcass composting; treating the health needs of injured animals; and mitigating emotional and financial stress among ag producers. Extension personnel who serve on U.S. Dept. of Agriculture County and State Emergency Boards provided input on damage assessments, which were necessary to seek a USDA Secretarial Disaster Declaration that would open disaster loans to affected farms and ranches.

Statewide, AgriLife Extension is a recognized partner in emergency management through its network of Extension educators, 251 Extension county offices, local committees on disaster preparedness and animal health issues, and online resources, such as the Extension Disaster Education Network (http://texashelp.tamu.edu/).

**Volunteer Corps Doubles Extension Workforce:**
AgriLife Extension is well known for serving all of Texas through community-based educators in 251 Extension county offices. To broaden its outreach, Extension also trains volunteers who help carry out local educational programs. In 2015, more than 99,000 volunteers (99,907) contributed 3.6 million hours of service. That equated to a full-time workforce of 1,902—which essentially doubled Extension’s human resources. With a value of $83.2 million, the volunteer service provided an impressive $1.26 return on investment for every dollar appropriated by the state to AgriLife Extension.

**Program Prevails as Top Choice for County Officials:**
More than 400 elected officials, representing half of all Texas counties, participated in the 58th Annual School for County Commissioners Courts, February 16-18, 2016, in College Station. This year’s event featured a keynote address by Texas Comptroller Glenn Hegar and more than 30 sessions of specialized instruction.

The School is a program of AgriLife Extension’s V.G. Young Institute of County Government, a leading provider of continuing education for Texas county officials. The Institute organizes an annual line-up of programs and online courses that, on average, award over 35,000 CEUs to some 3,000 attendees. The Institute serves as an important government relations link with county commissioners courts and also provides civic education to Texas citizens.
VCE Planning and Reporting Process: In 2014, 11 Program Teams were created to lead and coordinate state level Extension programming, in collaboration with Associate Directors. The teams, made up of agents, specialists, and others, are: 1) 4-H Positive Youth Development, 2) Agriculture and Enterprise Management, Marketing, and Policy, 3) Animal Production, 4) Crops and Horticulture, 5) Pest and Pesticide Management, 6) Family and Community Economics, 7) Food, Nutrition, and Health, 8) Human Development, 9) Leadership, Volunteerism, and Civic Engagement, 10) Natural Resources, Environmental, and Agricultural Literacy, and, 11) Natural Resources and Energy. In late 2015, Program Teams developed Action Plans, which are specific programmatic pieces of their comprehensive plans they will support with curriculum, professional development, and evaluation protocols for a year. Thirty-two Action Plans were developed and were offered to agents for buy-in in 2016. In future years, Program Teams can amend or change their Action Plans to be responsive to changing local and state-wide issues. The impacts of these Action Plans will be used for local, state, and federal reporting.

District Program Leadership Teams (DPLT): The Virginia Cooperative Extension (VCE) DPLT program completed its second full year of operation at the end of 2015. Each DPLT has six members (two ANR, two FCS, and two 4-H Agents). Their charge is to train primarily new agents (less than one year and one to four years of experience) on the VCE Programming Process. In 2015, the DPLT continued their work through monthly and quarterly WebEx and face-to-face trainings, as well as individual training and assistance. In addition to training mentors and monitoring the mentoring process and encouraging and assisting agents in applying for awards, examples of other training topics include: Myers-Briggs Personability Inventory, the electronic faculty reporting system, program design and implementation, grants and fund raising, scholarly writing, teaching skills, personal safety in the workplace, writing proposals for professional meetings, civil rights compliance, and generations in the workplace. As a result of this work, the VCE DPLT effort was selected to highlight their work at an Innovation Showcase at the 2015 National Extension Directors and Administrators conference in St. Louis.

Virginia Impacts of Teen Cuisine on the Dietary Habits and Food Preparation Skills of Adolescents: This statewide effort seeks to educate today’s adolescents on healthy, inexpensive food preparation techniques to use at home. Teen Cuisine is a skill-based curriculum that focuses on food preparation and safety. It includes six lessons, each lasting 90 minutes. It focuses on key components of the Dietary Guidelines for Americans, including MyPlate, the food label, sources of fat, whole grains, and nutritious snacks. This program is supported by the Youth Voice: Youth Choice 4-H Healthy Living grant. Through interdisciplinary programming (4-H, FCS, and FNP) together we reached a diverse group of over 12,000 youth between the ages of 12-19 in 2015. Students completed either a pre-post evaluation, as required for the Family Nutrition Program staff, or the 4-H Common Measures Healthy Living post-test as required by the Youth Voice Youth Choice grant. Based on the post-tests evaluations, teen participants reported a variety of positive dietary impacts: 90% indicated that as a result of Teen Cuisine they learned about healthy food choices and the importance of nutrition in planning meals and snacks: 73% indicated that as a result of Teen Cuisine they are making healthier food choices and cooking with their families, and 68% indicated they are changing behaviors to eat more healthy.
Establishment and Continuation of the Teen Excellence in Leadership Institute (TELI): Leadership Development for teens has been an ongoing purpose and challenge. It has been addressed through various youth organizational programs, such as those like 4-H and FFA, but is generally context dependent and geared toward youth with similar interest or access to specific programs. A core planning team was coordinated to envision, plan, and implement a new teen leadership program for Virginia. Funding for a program was made available through an endowment fund intended for youth leadership development. The result was the Teen Excellence in Leadership Institute (TELI). Outstanding teens (ages 15-18), nominated by their 4-H agent or FFA Advisor/Agriculture teacher, were eligible to apply through a competitive process. The three-part institute design included two in-person weekend events and a virtual meeting for project updates. Institute goals include: 1) understand self and develop a personalized action plan for engaged leadership, 2) network with other teens interested in learning about issues facing youth and communities, 3) design a team project to address community leadership needs in Virginia, 4) learn more about advocacy and outreach that will improve the lives of others. Topics covered in the program are to include, but not be limited to: Strengths-Based Leadership, Problem Solving Style, Group Facilitation Skills, Adult-Youth Partnerships, Team Building, Project Collaboration, Peer Feedback and Evaluation, Leadership Principles, Etiquette, and Critical Reflection.

Virginia’s Fertilizer Applicator Certification Training (FACT) Program Provides Free On-Line, Self-Paced Training and Testing in Fertilizer Selection, Handling, and Applications: Virginia’s state legislature began enforcing an unfunded mandate in 2013 that requires commercial applicators of fertilizer to turf and ornamental properties to be certified in the proper selection, handling, and application of fertilizer materials. In lieu of an on-site training program, a web-based training and testing system was developed that is readily available to Virginia’s turfgrass industry professionals at reduced or no cost. The program is called FACT and is hosted on the Virginia Cooperative Extension website at www.ext.vt.edu/fact. The program consists of 10 training modules and is also supported by numerous training videos and pdf files. The program went live in April 2013 and has become a mandatory requirement for the new Virginia Turfgrass Certification Program. Since its inception in 2013, 1,345 people have participated with a total of 538 successfully becoming Certified Fertilizer Applicators.

Tackling Food Deserts to Increase Food Access: To address the challenge of food deserts in Virginia, VCE continued to partner across communities to identify strategies and implement an array of programs to increase access to healthy foods. One innovative approach being implemented is the “prescription for produce” model. This past year, physicians and nurse practitioners at the Community Health Clinic began writing prescriptions for both physical activity and produce from the Farmacy garden. In total, 41 volunteers served 510 hours, cultivating and harvesting over 830 lbs of produce. And there were 13 WIC participants that came to work in the garden. All leftover produce was distributed at both the Community Health Center of the New River Valley and during the weekly Montgomery County WIC clinics. This program continues to grow and is being replicated in other communities.

Budget/Administrative:
Dr. Karen DeBord, interim FCS program leader retired and Dr. Crystal Tyler-Mackey is the current interim.

Virginia Tech has initiated two efforts called Beyond Boundaries and Destination Areas that are framing the 21st Century land-grant university, recognizing the value of all three missions. Destination Areas is looking at focusing on large issues that VT either has capacity or could build capacity to address in the near term. Beyond Boundaries is preparing for what VT should be in the year 2047, its sesquicentennial.

The Virginia General Assembly has included a 3% merit salary increase for all faculty and staff effective in November. They provided an additional $50,000 for agent parity.