

2011 Alcorn State University Combined Research and Extension Annual Report of Accomplishments and Results

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I. Report Overview

1. Executive Summary

In a time of dynamic change, Alcorn State University with the support and technical assistance of federal and state partners continues to be a center of excellence in addressing various needs of all Mississippians. Alcorn State University has implemented a comprehensive organizational joint process with its research and educational counterparts. This process simplifies efforts with a positive long-term affect in accomplishments which are identified, evaluated, and assigned appropriate mitigation and monitoring strategies. These accomplishments are in accordance with the university and national response threshold.

Joint programming processes are strongly linked to the university's strategic plan and needs assessment. This process provides a high degree of assurance that Alcorn Extension and Research remains well positioned to serve its clientele in a productive manner. Paraprofessionals, area educators, faculty, middle management, and administrators from Extension, research, and teaching are involved in program design, implementation, and evaluation.

Alcorn State University state-level Extension and research staff consists of two concerted efforts: (1) researchers conduct research based on relevant issues and situations facing Mississippi limited-resource citizens and (2) Extension specialists and educators apply the research-based information to design and implement educational programs to deliver new knowledge to limited-resource clientele. The collaborative effort will enable clients to develop new skills and improve existing skills that will improve their quality of life during a time of dynamic change. Research and educational programs are enhanced by the ASU Model Farm and three off-campus demonstration centers located in Preston, MS (Kemper County) The Farmers Market, Natchez, MS (Adams County), and Mound Bayou, MS (Bolivar County). Research and educational programs at the outreach centers are designed to address relevant issues in certain geographic areas of the state identified through the Town Hall and focus group processes. The Natchez Farmers Market was developed through a partnership between Alcorn State University Extension Program and the City of Natchez. Accessible marketing opportunity will be provided to limited-resource farmers and businesswomen, who are able to market vegetables, other produce, and value-added products. In the North Delta region, the Vegetable Processing Plant in Marks, MS provides limited-resource farmers an opportunity to observe research and Extension demonstrations on the processing of various crops to produce valued-added products that can increase the income of certain alternative enterprises.

Total Actual Amount of professional FTEs/SYs for this State

| Year: 2011 | Extension | | Research | |
|------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 36.5 | 0.0 | 40.0 |
| Actual | 0.0 | 33.0 | 0.0 | 34.0 |

II. Merit Review Process

1. The Merit Review Process that was Employed for this year

- Combined External and Internal University Panel
- Combined External and Internal University External Non-University Panel
- Expert Peer Review

2. Brief Explanation

The program development team established a merit review process to review the seven (7) planned programs of the Plan of Work (POW). The internal review process determined the effectiveness in planning, implementation, and evaluation of the programs to address high priority needs of limited-resource clientele according to the POW. A six (6) member team conducted the program reviews in selected counties. An internal county program review was conducted this year in two (2) selected counties. As a result of the county program review the findings were as follows: (a) the Extension educators reported that training was needed for new and current county advisory councils and executive boards members; (b) it was reported training was needed for the implementation of the environmental scanning process to seek stakeholder input to identify critical needs and issues; and (c) also, training was needed in evaluation and impact writing to document the impacts of the planned program areas. Additional field and state staff is needed in all planned program areas to address issues and needs in the counties and develop appropriate programs, events, and activities. It is imperative to employ highly, qualified individuals to help ASUEP address limited-resource clientele issues and needs.

III. Stakeholder Input

1. Actions taken to seek stakeholder input that encouraged their participation

- Use of media to announce public meetings and listening sessions
- Targeted invitation to non-traditional stakeholder groups
- Targeted invitation to non-traditional stakeholder individuals
- Survey of traditional stakeholder groups
- Survey specifically with non-traditional groups
- Survey specifically with non-traditional individuals

Brief explanation.

The gathering of information from our grassroots clientele has always been the cornerstone of the success of the Alcorn State University Extension Program. This plan allowed for prioritizing and the addressing of community issues as seen by those living with the conditions on a daily basis

versus how they are perceived by observers. Clientele involvement provides Extension staff with valuable information to design and implement programs to improve the lives of Mississippi residents.

The town hall meetings provided valuable data that helped ASUEP prioritize the top five issues in the towns and or communities. Data from the select towns and or communities indicated the lack of youth activities, affordable housing, sub-standard housing, jobs, education, and work force development ranked highest among the critical issues repeatedly echoed throughout the five counties. These concerns were followed by a lack of jobs, activities for the youth, and the need for mentoring programs. In this report, themes are grouped into six major categories: jobs, education, housing, human relations, community services, and environment.

The second tier of the environmental scanning process, the focus group meeting, was an opportunity for the citizens in the ASUEP service area to outline more specifically what the issues were in their respected counties. The meeting also provided a vehicle for discussion without pressure for concerned citizens to voice their opinion on critical needs they are confronting. The cross-county concerns are issues shared by at least three counties while several of the issues recurred across several county lines.

2(A). A brief statement of the process that was used by the recipient institution to identify individuals and groups stakeholders and to collect input from them

1. Method to identify individuals and groups

- Use Advisory Committees
- Use External Focus Groups
- Open Listening Sessions
- Needs Assessments
- Use Surveys

Brief explanation.

The town hall meetings provided valuable data that helped Alcorn State University Extension Program, prioritize the top five issues in the towns and communities. Data from the select towns and or communities indicated the lack of youth activities, affordable housing, sub-standard housing, jobs, education, and workforce development ranked highest among the critical issues repeatedly echoed throughout the five counties. These concerns were followed by a lack of jobs, activities for youth, and the need for mentoring programs. In this report, themes are grouped into six major categories: jobs, education, housing, human relations, community services, and environment.

2(B). A brief statement of the process that was used by the recipient institution to identify individuals and groups who are stakeholders and to collect input from them

1. Methods for collecting Stakeholder Input

- Meeting with the general public (open meeting advertised to all)
- Meeting specifically with non-traditional groups
- Survey specifically with non-traditional groups
- Meeting specifically with non-traditional individuals

- Survey specifically with non-traditional individuals
- Meeting with invited selected individuals from the general public

Brief explanation.

The information that was gathered the previous year guided ASUEP administration on how funds could best be used in the implementation of programs in the counties. In addition, the information will improve existing research programs and guide the development of new research programs. Also, administration will be able to determine staffing needs and develop an action plan to address county issues.

3. A statement of how the input will be considered

- In the Budget Process
- To Identify Emerging Issues
- Redirect Extension Programs
- Redirect Research Programs
- In the Staff Hiring Process
- In the Action Plans
- To Set Priorities

Brief explanation.

The information that was gathered the previous year guided ASUEP administration on how funds could best be used in the implementation of programs in the counties. In addition, the information will improve existing research programs and guide the development of new research programs. Also, administration will be able to determine staffing needs and develop an action plan to address county issues.

Brief Explanation of what you learned from your Stakeholders

Stakeholders' input is crucial to defining common community issues and concerns, shaping an action plan, and the execution of the determined course of action. The primary result of people involvement is an opportunity to empower themselves. The outgrowth of community leadership is based on the solutions of the community problems coming from a group who has a vested interest in the outcome. The problems confronting rural Mississippians are not unique to the southwestern and Delta regions of the state. Instead, the emerging themes reveal to us that these geographic areas of Mississippi are a microcosm of what is taking place across America. Housing, better educational systems, human relations, community services, and environmental issues are national concerns. The challenge for the rural communities in Mississippi lies in their ability to move away from traditional values. Education and workforce preparation will be fundamental in helping rural communities grow into better functioning economic entities with the ability not only to survive, but thrive in the changing marketplace.

There is a concern for educational reform; rural schools must raise their standards and become a platform that can launch better-prepared students and workers who can fully integrate into an evolving technological society. Education is the root of creating a rural environment that will attract and retain people with high human capital, reduce the rate of attrition, and encourage industries in its relocation decisions. As a result, better job prospects will be the outcome and afford residents the opportunity to pursue a higher standard of living and establish the lifestyles they desire. It is important to develop delivery programs that address housing and related issues. In collaboration with the Extension Program, other state and federal agencies should concentrate on

the level of human relations, community services and environmental issues. These issues continue to cause concern for rural residents. While addressing these issues, leaders understand they cannot continue to apply measures of the past and expect new outcomes. The Extension Program will analyze what has and has not worked and take new approaches to address the issues. ASUEP objectives will be to continue to plan, execute and evaluate learning experiences with locally identified needs that will help people to understand, and to acquire the essential skills for solving community problems.

IV. Expenditure Summary

| 1. Total Actual Formula dollars Allocated (prepopulated from C-REEMS) | | | |
|---|----------------|----------|-------------|
| Extension | | Research | |
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 1975772 | 0 | 2486626 |

| 2. Totaled Actual dollars from Planned Programs Inputs | | | | |
|--|---------------------|----------------|----------|-------------|
| | Extension | | Research | |
| | Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| Actual Formula | 0 | 1975772 | 0 | 2486626 |
| Actual Matching | 0 | 1975772 | 0 | 2486626 |
| Actual All Other | 0 | 0 | 0 | 0 |
| Total Actual Expended | 0 | 3951544 | 0 | 4973252 |

| 3. Amount of Above Actual Formula Dollars Expended which comes from Carryover funds from previous | | | | |
|---|---|---|---|---|
| Carryover | 0 | 0 | 0 | 0 |

V. Planned Program Table of Content

| S. No. | PROGRAM NAME |
|--------|---|
| 1 | Global Food Security and Hunger |
| 2 | Small Family Farm Enterprise Financial Analysis & Marketing |
| 3 | Youth, Family, Nutrition and Health, Fitness and Wellness |
| 4 | Climate Change |
| 5 | Food Safety |
| 6 | Sustainable Energy |
| 7 | Childhood Obesity |

V(A). Planned Program (Summary)

Program # 1

1. Name of the Planned Program

Global Food Security and Hunger

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 102 | Soil, Plant, Water, Nutrient Relationships | | 10% | | 10% |
| 205 | Plant Management Systems | | 10% | | 10% |
| 211 | Insects, Mites, and Other Arthropods Affecting Plants | | 5% | | 10% |
| 213 | Weeds Affecting Plants | | 5% | | 5% |
| 301 | Reproductive Performance of Animals | | 10% | | 10% |
| 302 | Nutrient Utilization in Animals | | 10% | | 5% |
| 303 | Genetic Improvement of Animals | | 5% | | 5% |
| 308 | Improved Animal Products (Before Harvest) | | 5% | | 5% |
| 311 | Animal Diseases | | 10% | | 10% |
| 501 | New and Improved Food Processing Technologies | | 5% | | 5% |
| 602 | Business Management, Finance, and Taxation | | 5% | | 5% |
| 603 | Market Economics | | 7% | | 7% |
| 608 | Community Resource Planning and Development | | 8% | | 8% |
| 609 | Economic Theory and Methods | | 5% | | 5% |
| | Total | | 100% | | 100% |

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

| Year: 2011 | Extension | | Research | |
|--------------------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 20.0 | 0.0 | 30.0 |
| Actual Paid Professional | 0.0 | 20.0 | 0.0 | 30.0 |
| Actual Volunteer | 0.0 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 1197438 | 0 | 2194082 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 1197438 | 0 | 2194082 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)

1. Brief description of the Activity

The program will utilize an interdisciplinary team in agriculture to explore food insecurity issues and identify strategies to find solutions as a means of impacting the community through research and educational programs. Research in crop and animal production, as well as in agricultural economics will be conducted to identify ways by which hunger and food insecurity can be alleviated and eventually eradicated. Research will be conducted by synthesizing existing knowledge and new findings in agricultural sciences. The educational program will provide a wide range of demonstrations, farm tours, group meetings, seminars, applied research, and one-on-one intervention. The indirect activities will include public service announcements, dissemination of newsletters, website development, research publications reports, fact sheets, and publications in scientific journals. These activities will be geared towards increased food production, availability, and access.

2. Brief description of the target audience

This program will be designed specifically for the limited-resource farmers and rural dwellers within the State of Mississippi. We hope to provide the farmers and dwellers in Mississippi and the nation with findings related sustainable production, preservation and utilization of identified alternative crops.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

| 2011 | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|---------------|------------------------|--------------------------|-----------------------|-------------------------|
| Actual | 4809 | 3900 | 1962 | 1163 |

2. Number of Patent Applications Submitted (Standard Research Output)
Patent Applications Submitted

Year: 2011
 Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| 2011 | Extension | Research | Total |
|--------|-----------|----------|-------|
| Actual | 0 | 3 | 3 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Development of research papers and publications of the findings of studies focusing on plant systems

| Year | Actual |
|------|--------|
| 2011 | 3 |

Output #2

Output Measure

- Conduct educational programs for limited resource farm families and youth in communities on soil, plant, water, and nutrient relationships

| Year | Actual |
|------|--------|
| 2011 | 5 |

Output #3

Output Measure

- Conduct educational activities(demonstrations and workshops) for limited resource farm families and youth in communities on plant management systems.

| Year | Actual |
|------|--------|
| 2011 | 3 |

Output #4

Output Measure

- Conduct educational field days for limited resource farm families and youth on sustainable crop production practices.

| Year | Actual |
|-------------|---------------|
| 2011 | 3 |

Output #5

Output Measure

- Conduct educational tours for limited resource farm families and youth on sustainable crop production practices.

| Year | Actual |
|-------------|---------------|
| 2011 | 3 |

Output #6

Output Measure

- Conduct educational training on sustainable horticulture production practices to limited resources farm families.

| Year | Actual |
|-------------|---------------|
| 2011 | 3 |

Output #7

Output Measure

- Develop educational fact sheets on sustainable horticulture production practices to limited resources farm families.

| Year | Actual |
|-------------|---------------|
| 2011 | 6 |

Output #8

Output Measure

- Number of Research Projects

| Year | Actual |
|-------------|---------------|
| 2011 | 5 |

Output #9

Output Measure

- Conduct educational workshop for limited resource farm families on forest soil erosion/management.

| Year | Actual |
|-------------|---------------|
| 2011 | 4 |

Output #10

Output Measure

- Conduct educational demonstrations for limited resource farm families on best management practices and best available technologies.

| Year | Actual |
|-------------|---------------|
| 2011 | 4 |

Output #11

Output Measure

- Conduct educational programs events and activities on leadership development and marketing strategies to development skills facilitate economic and community development opportunities in communities.

| Year | Actual |
|-------------|---------------|
| 2011 | 38 |

Output #12

Output Measure

- Conduct educational programs, events and activities to facilitate workforce development and financial management opportunities for limited resource audiences in communities.

| Year | Actual |
|-------------|---------------|
| 2011 | 15 |

Output #13

Output Measure

- Conduct educational programs events and activities on cooperative development, home based and agricultural and non agricultural business development to enhance economic development opportunities in communities.

| Year | Actual |
|-------------|---------------|
| 2011 | 5 |

Output #14

Output Measure

- Conduct social psychological , marketing and economic and impact surveys and develop profiles of communities and their economic landscape and their food security situation. (Number of Surveys)
Not reporting on this Output for this Annual Report

Output #15

Output Measure

- Develop educational bulletins, manuscripts and documentation of findings and disseminate

results and models to promote food security community development and empowerment of residents (Number of Special Reports, News Letters and Fact sheets).
Not reporting on this Output for this Annual Report

Output #16

Output Measure

- Development of database to support and promote research in community resource development
Not reporting on this Output for this Annual Report

Output #17

Output Measure

- Conduct impact surveys and develop methods and policies for cutting cost of energy in running farms, communities, offices, business, schools and medical facilities
Not reporting on this Output for this Annual Report

Output #18

Output Measure

- Conduct educational programs, activities or events on forage production practices for limited resource farm families

| Year | Actual |
|-------------|---------------|
| 2011 | 1 |

Output #19

Output Measure

- Conduct educational programs, activities or events to improve herd genetics for limited Resource farm families
Not reporting on this Output for this Annual Report

Output #20

Output Measure

- Conduct educational programs, activities or events on pastured livestock production practices for limited Resource farm families

| Year | Actual |
|-------------|---------------|
| 2011 | 1 |

Output #21

Output Measure

- Conduct educational programs, activities or events on reproduction performance, nutrient utilization in animals to decrease livestock production cost for limited resource farm families
Not reporting on this Output for this Annual Report

Output #22

Output Measure

- Conduct educational programs, activities or events on alternative livestock production practices for Limited Resource farm families

| Year | Actual |
|-------------|---------------|
| 2011 | 1 |

Output #23

Output Measure

- Number of research publications published in the field on animal /meat production systems.
Not reporting on this Output for this Annual Report

Output #24

Output Measure

- Number of research based reader friendly pamphlets and leaflets developed for extension educators for farmers and farm families
Not reporting on this Output for this Annual Report

Output #25

Output Measure

- Develop M.S. thesis on animal production systems
Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes**V. State Defined Outcomes Table of Content**

| O. No. | OUTCOME NAME |
|--------|---|
| 1 | Percent of program participants adopted integrated nutrient management to increase crop production. |
| 2 | Percent of program participants utilized integrated pest management to improve the quality of vegetable production. |
| 3 | Percent of producers adopted new crop systems to improve crop yield and quality |
| 4 | Percent of participants improved product handling and sanitation |
| 5 | Percent of participants used recommended cultivar and other production practices to enhance productivity and profitability |
| 6 | Percent of participants that improved product handling and sanitation . |
| 7 | Percent of program participants to improve production efficiency through best management practices. |
| 8 | Percent of community leaders that will gain knowledge, develop leadership skills and become involved in civic activities and community and economic development opportunities. |
| 9 | Percentage of participants to utilize research data, knowledge and skills disseminated to encourage retention and to attract businesses, improve food security and encourage other economic development projects. |
| 10 | Increase the percentage of members of cooperatives to improve their production, marketing, financial, and management practices. |
| 11 | Increase the percentage of individuals who gained awareness of the role of entrepreneurship in achieving economic development. |
| 12 | Increase in the percentage of community officials and organizations who gained awareness of local issues on food security, economic and demographic profile of communities |
| 13 | Increase the percentage of individuals gained leadership and decision-making skills to become involved in community planning and development projects. |
| 14 | Increase the dissemination of high-tech business information to minority and small businesses on community resource development. |
| 15 | Increase the percentage of the community participation to gain awareness of cutting production and marketing cost. |
| 16 | Percentage of producers that will improve pasture grass fed to livestock. |
| 17 | Percentage of farmers to utilize artificial insemination and / or embryo transfer to decrease the need to purchase quality male animals and improve herd genetics. |

| | |
|----|--|
| 18 | Increase percentage of farmers to adopt pasture systems for production and / or alternative livestock as an alternative enterprise |
| 19 | Decrease in percentage of input cost of livestock production with the implementation of pasture systems for livestock production or best management practices. |

Outcome #1

1. Outcome Measures

Percent of program participants adopted integrated nutrient management to increase crop production.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|------|--------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

All plants need quality soil, nutrients, and water, in order to grow and produce vegetables and fruits. Soil provides macro and micronutrients that enable plants to thrive in diverse conditions. Water aids in translocation of nutrients. If one of the three ingredients are missing or lacking, crop yield and farm income will suffer.

What has been done

The Alcorn State University Extension Program (ASUEP) conducted a Soil, Nutrient, and Water workshop at a local church in Lorman, MS. Participants received instructions on soil management, soil sampling, nutrient management, fertilizer, and water management. Eighty-six (86) participants attended the workshop.

Results

An end-of-session questionnaire was used to evaluate the program. Thirty (30) or 34 percent of the participants responded an increase in knowledge regarding soil, nutrients, and water management. Members of the local church decided to plant a community garden to apply skills learned in the training. As a result, participants will be able to consume locally-grown fresh produce.

4. Associated Knowledge Areas

KA Code **Knowledge Area**
 102 Soil, Plant, Water, Nutrient Relationships

Outcome #2

1. Outcome Measures

Percent of program participants utilized integrated pest management to improve the quality of vegetable production.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|------|--------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Pest are a continuous problem for farmers. Pest consists of insects, fungi, bacteria, viruses, animals, and weeds. To effectively manage pest, farm must utilize integrated pest management. Integrated pest management consists of utilizing chemicals, biological, natural, and mechanical methods to control and eradicate pest.

What has been done

The ASUEP conducted an Agriculture Pest Management training session at the Model Farm on ASU main campus. Participants received hands-on instruction on different pest management strategies. Twenty-five (25) farmers attended the training session.

Results

An end-of-session questionnaire was used to evaluate the program. All farmers indicated an increase in knowledge regarding integrated pest management. Seventy-five percent of the farmers plan to use integrated pest management on their farm. The ASUEP Extension staff plans to follow up at various intervals (3 months) with farmers interested in adopting integrated pest management practices. Also, additional training sessions will be planned for different locations within Mississippi.

4. Associated Knowledge Areas

KA Code **Knowledge Area**
 211 Insects, Mites, and Other Arthropods Affecting Plants

Outcome #3

1. Outcome Measures

Percent of producers adopted new crop systems to improve crop yield and quality

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

For farmers to earn adequate income from the sale of their produce, value-added processing, production, proper crop handling, and sanitation is necessary. Market opportunities exist for the creation and utilization of usable value-added technology.

What has been done

Syrup demonstrations were conducted at the 2011 Mississippi State Fair. The demonstrations provided participants with up-to-date information, harvesting equipment/techniques, and hands-on processing techniques. Five (5) sweet sorghum/sugarcane producers participated in the demonstration by providing sugarcane for processing and marketing.

Results

Each producer earned approximately \$1,500 in syrup sales. The ASUEP plans to recruit additional producers and set-up demonstrations throughout the state.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--------------------------|
| 205 | Plant Management Systems |

Outcome #4

1. Outcome Measures

Percent of participants improved product handling and sanitation

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Because fresh-cut fruits and vegetables are living and breathing during and after processing, they are subject to rapid deterioration and can support the growth of large populations of microorganisms. Unlike other processed foods, there is no kill step during processing and there is no treatment, other than good temperature management, that will significantly retard deterioration. Therefore, maintaining the quality and safety of fresh-cut produce is a challenge that is only met by doing many small things well. If temperature is not managed well, good sanitation and adherence to Good Manufacturing Practices (GMP.s) will not ensure either quality or safety. A poor sanitation program will prevent HACCP from functioning fully. Good sanitation and food safety are best provided through the proper use of multiple programs, including GMP.s, sanitation programs, QA (quality assurance) and HACCP (Hazard Analysis Critical Control Point) programs. Each rests upon the other and will not work well unless the supporting program is in place. Hence, farmers need to be educated on good agricultural practices such as good product handling and sanitation to prevent food borne diseases.

What has been done

Five workshops on quality control, sanitation, post-harvest handling and HACCP (Hazard Analysis Critical Control Point) were conducted at the Alcorn State University Vegetable Processing facility located in Marks MS. A total of two hundred and fifty (250) farmers attended the workshops. As food safety also begins in the field at the time of planting the workshops included good crop production practices. In addition, farmers were also educated on environmental factors such as soil type, temperature, frost, and rainy weather at harvest because the aforementioned factors can have an adverse effect on storage life and quality of the produce.

Results

It is clear from the above points of possible contamination that produce sanitation must start in the field and encompass all areas of growing, harvesting, handling and processing. While many processors have little influence over how and where raw product is produced, all should take an active role in making their sanitation and safety concerns known to their suppliers and to find alternate suppliers when those concerns are not addressed. Therefore, results of the questionnaire conducted after the workshops indicated that majority (80%) of the participants gained knowledge of product handling and sanitation are now applying the technology on their farming operation.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|---|
| 501 | New and Improved Food Processing Technologies |

Outcome #5

1. Outcome Measures

Percent of participants used recommended cultivar and other production practices to enhance productivity and profitability

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|------|--------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Fall is the season for growing green seasonal vegetables such as greens, lettuce, and broccoli. Different agricultural practices should be conducted to prepare traditional, raise beds, and container gardens for the growing season. Producers should apply the proper practices needed for their garden. Different practices vary due to the garden style and what crop is being produced and producers should implement the proper practices.

What has been done

Fall is the season for growing green seasonal vegetables such as greens, lettuce, and broccoli. Different agricultural practices should be conducted to prepare traditional, raise beds, and container gardens for the growing season. Producers should apply the proper practices needed for their garden. Different practices vary due to the garden style and what crop is being produced

and producers should implement the proper practices.

Results

An end-of-session questionnaire was used to evaluate the Awareness Day. All participants indicated an increase in knowledge regarding sustainable agriculture practices. ASUEP plans to conduct additional sustainable agriculture programs. Additionally, ASUEP plans to conduct farm and home visits to determine if participants are adopting practices and provide technical assistance.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|---|
| 205 | Plant Management Systems |
| 501 | New and Improved Food Processing Technologies |

Outcome #6

1. Outcome Measures

Percent of participants that improved product handling and sanitation .

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Percent of program participants to improve production efficiency through best management practices.

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

Percent of community leaders that will gain knowledge, develop leadership skills and become involved in civic activities and community and economic development opportunities.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

A local Adams County non-profit organization appointed a Board of Directors with limited experience in board member responsibilities and strategic planning. The non-profit organization conducted the ASUEP to provide training on the board responsibilities and strategic planning.

What has been done

The ASUEP conducted training sessions on writing a mission and vision statement, establishing goals, and utilizing Continuous Quality Improvement strategies to facilitate meetings. Twelve (12) board members participated in the training sessions.

Results

The non-profit organization has started to develop an Action Plan to address critical issues and apply for grant to advance their efforts. The ASUEP plans to remain in close contact with the non-profit to provide technical assistance.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|---|
| 608 | Community Resource Planning and Development |

Outcome #9

1. Outcome Measures

Percentage of participants to utilize research data, knowledge and skills disseminated to encourage retention and to attract businesses, improve food security and encourage other economic development projects.

Not Reporting on this Outcome Measure

Outcome #10

1. Outcome Measures

Increase the percentage of members of cooperatives to improve their production, marketing, financial, and management practices.

Not Reporting on this Outcome Measure

Outcome #11

1. Outcome Measures

Increase the percentage of individuals who gained awareness of the role of entrepreneurship in achieving economic development.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

A local entrepreneur opened a farmers market in Jefferson County. The entrepreneur contacted the ASUEP requesting assistance with day-to-day operations, supplies, and building a customer base.

What has been done

The ASUEP responded by conducting a needs assessment and providing technical assistance on marketing management. Results from the needs assessment indicated consumers wanted a market to purchase fresh and locally grown produce. As a result, the ASUEP helped the entrepreneur to complete a USDA grant application to establish the farmers market and purchase supplies.

Results

The entrepreneur received a grant for \$71, 600 to sustain the farmers market. The ASUEP plans to visit the farmers market on a monthly basis to provide technical assistance, conduct customer satisfaction evaluations, and determine the economic impact of the market in Jefferson County.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|---|
| 608 | Community Resource Planning and Development |

Outcome #12

1. Outcome Measures

Increase in the percentage of community officials and organizations who gained awareness of local issues on food security, economic and demographic profile of communities

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The Alcorn State University Office of Academic Affairs contacted the ASUEP to assist a Jefferson County non-profit organization with amending by-laws. The present by-laws limited the organization ability to seek funding and operate outside of health/medical capacity.

What has been done

The ASUEP conducted a three hour (3) work session to discuss issues and amend by-laws to help the non-profit organization operate effectively and efficiently.

Results

The non-profit organization successfully changed their name and amended the by-laws to reflect outreach beyond the health/medical capacity. These changes will allow the non-profit organization to venture into economic development in Jefferson County and Mississippi. The ASUEP will continue to provide technical assistance to the non-profit and help identify grant opportunities.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|---|
| 603 | Market Economics |
| 608 | Community Resource Planning and Development |
| 609 | Economic Theory and Methods |

Outcome #13

1. Outcome Measures

Increase the percentage of individuals gained leadership and decision-making skills to become involved in community planning and development projects.

Not Reporting on this Outcome Measure

Outcome #14

1. Outcome Measures

Increase the dissemination of high-tech business information to minority and small businesses on community resource development.

Not Reporting on this Outcome Measure

Outcome #15

1. Outcome Measures

Increase the percentage of the community participation to gain awareness of cutting production and marketing cost.

Not Reporting on this Outcome Measure

Outcome #16

1. Outcome Measures

Percentage of producers that will improve pasture grass fed to livestock.

Not Reporting on this Outcome Measure

Outcome #17

1. Outcome Measures

Percentage of farmers to utilize artificial insemination and / or embryo transfer to decrease the need to purchase quality male animals and improve herd genetics.

Not Reporting on this Outcome Measure

Outcome #18

1. Outcome Measures

Increase percentage of farmers to adopt pasture systems for production and / or alternative livestock as an alternative enterprise

Not Reporting on this Outcome Measure

Outcome #19

1. Outcome Measures

Decrease in percentage of input cost of livestock production with the implementation of pasture systems for livestock production or best management practices.

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Appropriations changes
- Other (Personnel availability)

Brief Explanation

Personnel was contributing factor why the planned program did not address all stated outcomes. Researchers were on extended sick leave and one contributing researcher died April 2011. Also, the availability of grant funds reduced research efforts and educational programs. It is evident that this planned program area had too many outcomes to address and several outcomes have been combined or eliminated for 2012.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

- Limited-resource farmers are adopting sustainable vegetable production practices.
- There is an increased interest in community and container gardening.
- Limited-resource farmers need farmers markets and other direct outlets to market their produce.
- Limited-resource farmers are increasing their net farm income by producing syrup.

Key Items of Evaluation

Limited-resource farmers are interested in alternative crop production (e.g., syrup production) and alternative marketing strategies.

V(A). Planned Program (Summary)

Program # 2

1. Name of the Planned Program

Small Family Farm Enterprise Financial Analysis & Marketing

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 601 | Economics of Agricultural Production and Farm Management | | 30% | | 0% |
| 602 | Business Management, Finance, and Taxation | | 40% | | 0% |
| 604 | Marketing and Distribution Practices | | 30% | | 0% |
| | Total | | 100% | | 0% |

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

| Year: 2011 | Extension | | Research | |
|--------------------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 4.0 | 0.0 | 0.0 |
| Actual Paid Professional | 0.0 | 4.0 | 0.0 | 0.0 |
| Actual Volunteer | 0.0 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 239488 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 239488 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)

1. Brief description of the Activity

The development of enterprise budgets; development of models of effective strategies; distribution of results will be emphasized in our programs One small farm conference presentation per year; one non refereed publication per year; two presentations annually at meetings and workshops for farmers. Extension Programs will consist of the development (or identification) of relevant content materials to address knowledge gaps needed by farmers. Focus groups survey instruments will be developed. Various workshops, demonstrations, meetings, development of curricula, and other learning resources will be utilized for effective program implementation. Evaluation assessment methods will be implementation to document the impacts of our programs.

2. Brief description of the target audience

Small, limited-resource, and socially-disadvantaged farmers/ranchers in Mississippi.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

| 2011 | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|---------------|------------------------|--------------------------|-----------------------|-------------------------|
| Actual | 3106 | 2847 | 603 | 779 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| 2011 | Extension | Research | Total |
|---------------|-----------|----------|-------|
| Actual | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Conduct educational sessions on farm and financial management of farming operations

| Year | Actual |
|-------------|---------------|
| 2011 | 10 |

Output #2

Output Measure

- Conduct educational programs, events and activities on farm legal risk
Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Conduct educational programs, events and activities on farm management of farming operations

| Year | Actual |
|-------------|---------------|
| 2011 | 22 |

Output #4

Output Measure

- Conduct educational programs events, activities and provide technical assistance on the farm loans and other governmental agencies requirements and application processes

| Year | Actual |
|-------------|---------------|
| 2011 | 24 |

Output #5

Output Measure

- Conduct demonstrations on record keeping of sales and expenses on farming operations and outreach centers.

| Year | Actual |
|-------------|---------------|
| 2011 | 7 |

Output #6

Output Measure

- Conduct educational tours of Marketing and Direct Marketing of goods and services

| Year | Actual |
|-------------|---------------|
| 2011 | 5 |

Output #7

Output Measure

- Conduct educational programs, events and activities on the development and how to utilized marketing plans

| Year | Actual |
|-------------|---------------|
| 2011 | 5 |

Output #8

Output Measure

- Development of fact sheets in Marketing and Direct Marketing of Agriculture and value-added goods and services
Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O. No. | OUTCOME NAME |
|--------|--|
| 1 | Percentage of farmers and producers utilized knowledge gained on farm and financial management minimize cost on their farm operations to increase production and revenues. |
| 2 | Percentage increase of limited resource farmers and land owners minimized land and farm loss. |
| 3 | Percentage increase of farmers increased access to capital on their farming operations |
| 4 | Percentage of limited resource farmers who developed and utilized marketing plans |
| 5 | Percentage of the number of farmers and cooperatives demonstrated the use of marketing and direct Marketing of agriculture goods and services. |
| 6 | Percentage increase of farm families demonstrated the use of farm and financial management |
| 7 | Percentage of small-scale and limited resource farmers keeping records of sales and expenses |
| 8 | Percentage of farmers and cooperatives gained knowledge on Marketing and Direct Marketing techniques |

Outcome #1

1. Outcome Measures

Percentage of farmers and producers utilized knowledge gained on farm and financial management minimize cost on their farm operations to increase production and revenues.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The Small Farm Outreach Training and Technical Assistance Project works closely with all USDA federal and state agencies and community-based organizations to provide technical assistance to limited-resource and socially-disadvantaged farmers/ranchers. Limited-resource and socially disadvantaged farmers/ranchers need to improve the effectiveness and efficiency of their farming operation and increase profitability to sustain small farms.

What has been done

The ASUEP Small Farm Outreach and Technical Assistance Project staff conducted six (6) Vendor Borrowers training workshop to 44 limited-resource and socially disadvantaged farmers. The topics addressed were reducing land loss, increasing income through alternative enterprises, reducing debt, and improving crop and livestock production.

Results

Forty-four (44) limited-resource and socially disadvantaged farmers/ranchers received loans totaling \$1,677, 500 from the Farm Service Agency (FSA). The farmers/ranchers will use the loan proceeds to improve their farming operation by purchasing equipment, land, and diversifying their operation.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 602 | Business Management, Finance, and Taxation |

Outcome #2

1. Outcome Measures

Percentage increase of limited resource farmers and land owners minimized land and farm loss.

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Percentage increase of farmers increased access to capital on their farming operations

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The Small Farm Outreach Training and Technical Assistance Project works closely with all USDA federal and state agencies and community-based organizations to provide technical assistance to limited-resource and socially-disadvantaged farmers/ranchers. Limited-resource and socially disadvantaged farmers/ranchers need to improve the effectiveness and efficiency of their farming operation and increase profitability to sustain small farms.

What has been done

The Small Farm Outreach and Technical Assistance Project staff conducted eight (8) Mississippi Small Farm Development Center (MSSFDC) Loan Application workshops to 593 farmers. The staff explained the loan application process and helped farmers complete the loan application.

Results

Farmers received \$48,300 in loan proceeds from the MSSFDC at zero percent interest. Farmers used the loan proceeds to purchase equipment and additional land and diversify their farming operation.

4. Associated Knowledge Areas

KA Code **Knowledge Area**
601 Economics of Agricultural Production and Farm Management

Outcome #4

1. Outcome Measures

Percentage of limited resource farmers who developed and utilized marketing plans

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

A local farmer requested marketing and post-harvest handling assistance from the ASUEP Demonstration and Research Farm staff in Mound Bayou, MS. He was marketing vegetables in front of his store; however, he was not receiving a premium price because of limited knowledge of marketing and post-harvest handling. Using multiple market outlets increases earning potential. To provide fresh produce, farmers must understand post-harvest handling.

What has been done

The ASUEP Demonstration and Research Farm staff helped the farmer select new and improved varieties of vegetables (e.g., Florida broadleaf mustard greens) that thrive in the Mississippi Delta. Also, the farmer received training on packaging, post-harvest handling (e.g., proper storage), and selling produce at the Cleveland Farmer's Market.

Results

The farmer planted the new varieties and production increased by 25 percent (farmer reported). He is selling produce at the Cleveland Farmer's Market and his income has increased by 20 percent (farmer reported). The ASUEP Demonstration and Research Farm staff will provide technical assistance by helping the farmer to maintain accurate farm records to document economic change.

4. Associated Knowledge Areas

KA Code **Knowledge Area**
604 Marketing and Distribution Practices

Outcome #5

1. Outcome Measures

Percentage of the number of farmers and cooperatives demonstrated the use of marketing and direct Marketing of agriculture goods and services.

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Percentage increase of farm families demonstrated the use of farm and financial management

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Limited-resource and socially disadvantaged farmers/ranchers in Mississippi need financial management assistance. The key to a successful business is to have a business plan in place. Farmers/ranchers lack the knowledge and understanding of how to develop a farm business plan. Proper business planning decreases risk and increase the opportunity for farmers to improve their socioeconomic status and quality of life.

What has been done

The ASUEP conducted an educational session on business planning with the Natural Resource Conservation Service (NRCS), Mississippi Small Farm Development Center (MSFDC), Mississippi Association of Cooperatives (MAC), and Audubon Arkansas NATIVE Project. Nineteen (19) limited-resource farmers participated in the training.

Results

An end-of-session questionnaire was used to evaluate the educational session. Fifteen (15) farmers strongly agreed that they increased their knowledge regarding business planning. Four (4) farmers agreed that they increased their knowledge regarding business planning. The ASUEP Small Farm Outreach and Technical Assistance Project staff will follow-up in 3 month intervals to

determine if farmers are developing and utilizing business plans. Also, additional educational sessions are plan with cooperatives throughout Mississippi.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 601 | Economics of Agricultural Production and Farm Management |

Outcome #7

1. Outcome Measures

Percentage of small-scale and limited resource farmers keeping records of sales and expenses

Not Reporting on this Outcome Measure

Outcome #8

1. Outcome Measures

Percentage of farmers and cooperatives gained knowledge on Marketing and Direct Marketing techniques

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Economy
- Competing Programmatic Challenges
- Other (Staff)

Brief Explanation

Two Business Management Training officers were selected and recommended for employment in September 2010; however, they did not start to work until January 4, 2011. Also, cooperatives and community-based organizations are providing similar services to limited-resource and socially-disadvantaged farmers in Mississippi.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Traditional mailed surveys were used to evaluate the Small Family Farm Enterprise Financial Analysis & Marketing planned program. The surveys determined that the farmers were using manual and computer record keeping to track expenses and income. Also, farmers reported they were able to secure loans from the Farm Service Agency, Rural Development, and the Mississippi Small Farm Development Center. The majority of farmers participating in this planned program area increased their farm income from \$1,000 to \$10,000.

Key Items of Evaluation

Limited-resource and socially-disadvantaged farmers/ranchers receive approximately \$1.7 million in loans from the Farm Service Agency. Also, farmers/ranchers who participated in the planned program area incomes increased by \$1,000-\$10,000.

V(A). Planned Program (Summary)

Program # 3

1. Name of the Planned Program

Youth, Family, Nutrition and Health, Fitness and Wellness

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 703 | Nutrition Education and Behavior | | 20% | | 0% |
| 724 | Healthy Lifestyle | | 20% | | 0% |
| 801 | Individual and Family Resource Management | | 20% | | 0% |
| 802 | Human Development and Family Well-Being | | 20% | | 0% |
| 806 | Youth Development | | 20% | | 0% |
| | Total | | 100% | | 0% |

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

| Year: 2011 | Extension | | Research | |
|--------------------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 6.0 | 0.0 | 0.0 |
| Actual Paid Professional | 0.0 | 6.0 | 0.0 | 0.0 |
| Actual Volunteer | 0.0 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 359231 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 359231 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)

1. Brief description of the Activity

Area Extension Educators will conduct educational sessions in local schools and communities using educational programs, events and activities to aid youth in resisting risky behaviors such as tobacco use, alcohol and drug abuse, becoming sexual active, STD's and high school dropouts and juvenile detention, etc . Extension educators, community volunteers, state specialists and other collaborators will plan and organize programs, summits and events that will provide additional educational information to youth. Career days/fairs will be conducted at local schools and communities. The development of skills of volunteer leaders to organize school and community based clubs. Youth and volunteer leaders will participate in the following activities and events: 4 H Project Achievement Day; 4 H State Club Congress; 4 H State Fair Exhibit/4 H Day at Fair; National 4 H Congress; leadership camp and career days/fairs. Additionally, educational programs, events and activities will be implemented to improve parenting practices to improve parent and child relationship. Also, information will be disseminated and programs conducted on child development for developing and enhancing after school programs child care and other learning environments of children. Educational workshops, tours and career days/fairs will be conducted at local schools and in communities on financial resource management. Another aspect of this planned program will focus on the implementation of educational programs, events and activities along with research to address the nutrition, health fitness wellness and obesity issues facing limited resources families and youth in communities. Educational programs and workshops will be conducted to promote nutrition and other factors contributing to healthy lifestyles. Activities will be implemented that focused on behavior changes needed for proper weight management. Educational programs will be implemented focusing on recipe modification, portion control, food safety and calorie reduction. The educational program in this area of the planned program will provide participants adequate knowledge and information to make wise decisions concerning nutrition, health and their lifestyles to decrease weight gain and delay the onset of chronic diseases such as: heart disease, diabetes and hypertension.

2. Brief description of the target audience

The target audiences are at risk resource children and youth age 5 -19, adult volunteers, and limited-resource families.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

| 2011 | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|---------------|------------------------|--------------------------|-----------------------|-------------------------|
| Actual | 2760 | 1350 | 17914 | 2661 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| 2011 | Extension | Research | Total |
|--------|-----------|----------|-------|
| Actual | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Conduct educational programs, events and activities on risky behaviors affecting youth

| Year | Actual |
|------|--------|
| 2011 | 105 |

Output #2

Output Measure

- Conduct career/ workforce educational sessions in local schools and communities

| Year | Actual |
|------|--------|
| 2011 | 19 |

Output #3

Output Measure

- Conduct leadership development educational programs, events and activities to provide opportunities at the county and regional levels.

| Year | Actual |
|------|--------|
| 2011 | 17 |

Output #4

Output Measure

- Involvement of minority youth in county, state, district and national 4-H leadership activities and events: Youth leadership Academy; 4 H: Achievement Day, State Club Congress, Mississippi State Fair, National 4-H Conference and National 4-H Congress.

| Year | Actual |
|------|--------|
|------|--------|

2011 10

Output #5

Output Measure

- Conduct science, technology and environment programs events and activities to attract the interest of youth in educational fields

| Year | Actual |
|-------------|---------------|
| 2011 | 20 |

Output #6

Output Measure

- Conduct educational programs, events and activities on family financial resource management

| Year | Actual |
|-------------|---------------|
| 2011 | 52 |

Output #7

Output Measure

- Conduct educational programs, events and activities on effective parenting practices

| Year | Actual |
|-------------|---------------|
| 2011 | 21 |

Output #8

Output Measure

- Conduct research on nutrition, health, wellness, obesity and opportunities for physical fitness on youth and adult.
Not reporting on this Output for this Annual Report

Output #9

Output Measure

- Conduct nutrition and health and wellness workshops for limited resource youth and adults

| Year | Actual |
|-------------|---------------|
| 2011 | 35 |

Output #10

Output Measure

- Disseminate information about nutrition, chronic diseases and weight management
Not reporting on this Output for this Annual Report

Output #11

Output Measure

- Conduct educational programs, events and activities on nutrition, and physical fitness to improve health related diseases among limited resource youth and adults

| Year | Actual |
|-------------|---------------|
| 2011 | 35 |

Output #12

Output Measure

- Conduct demonstrations and disseminate information related to physical fitness and weight management
Not reporting on this Output for this Annual Report

Output #13

Output Measure

- Conduct educational programs, events and activities on food safety practices to preserve food quality and food sanitation
Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O. No. | OUTCOME NAME |
|--------|---|
| 1 | Increase the number of youth who resisted risky behavior that impacts their social and educational development. |
| 2 | Increase in number of minority youth competing in leadership competitions, youth events, activities and community projects |
| 3 | Increase in the number of trained volunteer leaders to organize and manage school and community youth clubs |
| 4 | Percent of limited resource participants to adopt parenting practices to improve parent/child relationships |
| 5 | Percent of limited resource families and youth to utilize their skills to analyze their financial well-being and make effective financial management decisions |
| 6 | Percentage of limited resource families and youth who utilize both healthy eating practices and physical fitness to manage obesity, weight and health related diseases. |
| 7 | Percentage of participants to utilize knowledge gained and made adjustments in their nutrition and lifestyle behaviors |

Outcome #1

1. Outcome Measures

Increase the number of youth who resisted risky behavior that impacts their social and educational development.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

School age kids are not fully aware of the risky problems and other issues that affects their social and educational development. This has become a major problem within our schools and communities.

What has been done

The Alcorn State University Extension Program conducted 15 Bullying Workshops. The Bullying Workshops were implemented at Natchez High School and Morgantown Elementary School, Natchez, MS.

Results

As a result of implementing the Risky Behaviors program, 343 youth gained knowledge on bullying that impacts their social and educational development. Approximately 173(50%) youth stated they would not engage in risky behaviors.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|---|
| 802 | Human Development and Family Well-Being |

Outcome #2

1. Outcome Measures

Increase in number of minority youth competing in leadership competitions, youth events, activities and community projects

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

In order to compete for leadership roles youth must acquire adequate leadership skills. These skills include effective communications, critical decisions making skills, and how to create a healthy work environment. Once these skills are secured more effective leaders will be produced.

What has been done

In an effort to improve youth leadership skills two educational workshops were implemented by ASUEP. The workshops were delivered in a two part process. The first part was a lecture style method and the second part was a hands on activities. The skills that were introduced to the participants were effective communications, critical decisions making skills, and how to create a healthy work environment. Forty-two (42) participants attended workshop at Job Corps.

Results

Through observation it was discovered that 100 percent of the youth that participated in the lecture acquired the skills by completing the hands on activities. The group members had to determined a leader themselves, display effective communication, all while maintaining a healthy work environment. By mastering this task indicated they had a much broader understanding of leadership roles. ASUEP will follow-up bi-monthly.

4. Associated Knowledge Areas

KA Code **Knowledge Area**
806 Youth Development

Outcome #3

1. Outcome Measures

Increase in the number of trained volunteer leaders to organize and manage school and community youth clubs

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

There has been a decrease in active volunteer leaders for community and school-based 4-H clubs because of the slow economy and job market. Also, some leaders lack the skills needed to manage, facilitate, and provide educational, cultural, and citizenship opportunities to youth.

What has been done

The 4-H volunteer leaders attended and participated in the 2011 South 4-H Volunteer Leader Forum/Training in Brookhaven, MS. The training sessions were conducted by both ASUEP and MSUES Youth Specialists. A

total of five (5) leaders and youth from Claiborne County attended and participated.

Results

As a result of the Volunteer Leader training, 4-H leaders and youth were trained to work with youth in clubs to provide a variety of educational, cultural and citizenship opportunities.

4. Associated Knowledge Areas

KA Code **Knowledge Area**
806 Youth Development

Outcome #4

1. Outcome Measures

Percent of limited resource participants to adopt parenting practices to improve parent/child relationships

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The State of Mississippi has informed Jefferson County Elementary School that they are endanger of being taking over by the state because of student performance on end of course exams. Parents must understand their children inappropriate behavior impact learning in a negative manner. Educating parents about the three styles of parenting and family can reduce poor parenting skills and improve students' performance.

What has been done

ASUEP presented a program on the three styles of parenting(e.g., Permissive, Authoritative, and Authoritarian,) Sixty-five participants participated in the program.

Results

Question and answer strategy was used, all participants felt more relax when discussing parenting styles. Parents were more aware of parenting style and how their style affect student learning and behavior. ASUEP plans to follow up in two months intervals by conducting home visits.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|-----------------------|
|----------------|-----------------------|

802 Human Development and Family Well-Being

Outcome #5

1. Outcome Measures

Percent of limited resource families and youth to utilize their skills to analyze their financial well-being and make effective financial management decisions

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Condition Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|------|--------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Today's youth are introduced to the complex economic world of credit and credit cards before they exit high school. Some leave high school already in debt. They need to learn to identify the uses as well

as the abuses of credit and credit cards, and explore ways to effectively utilize them to be better able to spend, save, invest, and to meet their needs and wants.

What has been done

To address this issue 45 youth participated in a educational workshop that was designed to prepare them with information and skills that help manage their money, develop a budget and use credit cards wisely. The topics presented were: the facts about money management, how to develop a budget, credit card facts and the advantages/disadvantages of credit cards.

Results

According to the post evaluation 50% of the 45 youth participating in the workshop reported that they understood the terms money management, goods, services and budget. They also understood how to budget for the three uses of money: spending, saving, and investing. Forty-five (45) percent increased their knowledge of credit and credit card usage.

Forty-nine (49) percent reported they would be able to identify the pros and cons/uses and abuses of credit cards and apply this information.

4. Associated Knowledge Areas

| | |
|----------------|---|
| KA Code | Knowledge Area |
| 802 | Human Development and Family Well-Being |

Outcome #6

1. Outcome Measures

Percentage of limited resource families and youth who utilize both healthy eating practices and physical fitness to manage obesity, weight and health related diseases.

2. Associated Institution Types

- 1890 Extension

3a. Outcome Type:

Change in Action Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|------|--------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

The American population often makes unhealthy decisions concerning physical activity, health, and nutrition. These decisions occur in all communities and people of all ages. The result of these choices is that 67% of the population is overweight. According to the Surgeon General, being overweight is a risk factor for health conditions seen more frequently in children such as increased blood pressure(hypertension), Type II diabetes, increased total cholesterol, insulin resistance, sleep apnea, bowed legs, joint problems, back pain, early puberty,depression, and anxiety.

What has been done

The Alcorn State University Extension Program conducted a one-week Health & Wellness Summer Camp for Military Youthwith parent(s) who have been deployed. Twenty (20) youth participated in the camp. The camp was designed to encourage leadership development, healthy eating, and physical activity. The educationalsessions and activities were: Healthy Eating and Snacking/Health Food Choices, Container Gardening, Cooking School,

and Cook-off.

Results

Of the thirty youth participating in the Health and wellness camp sixty-nine (69) percent youth feel that they are better equip to make healthier food choices and healthy snack. Seventy-five (75) percent stated that they will be able to use the knowledge and skills learned at the cooking school. Eighty (80)percent reported they will make good food choices to improve their lifestyle. Eighty?five (85) percent stated they will include 30 minutes of physical activity to maintain a health lifestyle.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|-------------------|
| 724 | Healthy Lifestyle |

Outcome #7

1. Outcome Measures

Percentage of participants to utilize knowledge gained and made adjustments in their nutrition and lifestyle behaviors

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Competing Programmatic Challenges
- Other (Staff)

Brief Explanation

A major focus of the Youth, Family, Nutrition, Health, Fitness, and Wellness planned program area is reducing the adult and childhood obesity rate in Mississippi. One external factor that interferes with programmatic efforts is other agencies or community-based organizations offering similar programs to reduce obesity. Also, staff is a second external factor, the ASUEP Family and Consumer Science specialists have a split appointment between Extension and the Human Science Department.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Surveys and direct observations were used to evaluate the Youth, Family, Nutrition, Health, Fitness, and Wellness planned program areas. Surveys and questionnaires were used at the conclusion of a program to measure knowledge gained. Direct observations were used to determine if participants were using the skills taught in the program. The youth component of the planned program implements educational programs related to

risky behaviors, leadership and workforce development, and recruiting volunteers. Results from risky behavior programs indicates youth are more aware of bullying, the negative effects of bullying, consequences of bullying, and reporting bullying activities to appropriate officials. Results from leadership development programs indicates participants are able to apply leadership skills (e.g., effective communication and team building skills in 4-H clubs and leadership programs). Results from workforce development programs indicate participants are able to develop a resume, dress for interviews, and participate in a mock interview. There is no concrete data to report on nutrition, health, fitness, and wellness. Future evaluations will consist of pre and post tests, observations, and maintaining journals to track progress.

Key Items of Evaluation

Bullying is a major issues facing today's youth and the ASUEP has addressed the issue in Mississippi. To capture a greater impact, the evaluation instrument must help determine if bullying activities are being reduced in the schools. Individual interviews will be conducted with school administration and counselors to determine if the programs are reducing bullying activities in the school.

V(A). Planned Program (Summary)

Program # 4

1. Name of the Planned Program

Climate Change

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 102 | Soil, Plant, Water, Nutrient Relationships | | 40% | | 40% |
| 111 | Conservation and Efficient Use of Water | | 10% | | 10% |
| 112 | Watershed Protection and Management | | 10% | | 20% |
| 123 | Management and Sustainability of Forest Resources | | 20% | | 0% |
| 133 | Pollution Prevention and Mitigation | | 10% | | 20% |
| 601 | Economics of Agricultural Production and Farm Management | | 10% | | 10% |
| | Total | | 100% | | 100% |

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

| Year: 2011 | Extension | | Research | |
|--------------------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 2.5 | 0.0 | 4.0 |
| Actual Paid Professional | 0.0 | 0.0 | 0.0 | 0.0 |
| Actual Volunteer | 0.0 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)

1. Brief description of the Activity

Improved cultural practices, such as crop rotation, conservation tillage, mulching, multiple-cropping, nutrient management and other factors of optimal production will be identified and recommended as beset management practice(s). Insects, Mites and other Arthropods Affecting Plants Pests of the crop plants will be controlled with appropriate pesticides. Major principles of integrated pest management system will be demonstrated and made available to farmers. The need to use the identified pest resistant cultivars will be emphasized. Weeds Affecting crop lands will be controlled with appropriate herbicides, mulching with organic and/or synthetic materials, cover cropping, and solarization, among other measures that will be found suitable through research at Alcorn State University. Research guides will be established to identify techniques needed to supply limited-resource farmers with alternatives that will provide additional income from their property. Studies will be used to identify the best management practices (BMPs) in combination with best available technologies (BATs) that will increase crop production and maximize profitability. Concurrent research will also be used to evaluate the costs and benefits associated with each BMPs and BATs. Research findings will be shared with stakeholders via Newsletters, Information Sheets, Research Reports, and flyers. Educational materials will be disseminated through workshops and demonstrations.

2. Brief description of the target audience

The target audience is small and limited-resource farmers.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

| 2011 | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|--------|------------------------|--------------------------|-----------------------|-------------------------|
| Actual | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| 2011 | Extension | Research | Total |
|--------|-----------|----------|-------|
| Actual | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Number of papers and publications developed by research
Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Conduct educational seminars for Limited Resource farm families and youths in communities on Soil, Plant, Water, and Nutrient Relationships
Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Conduct educational field days for Limited Resource farm families and youth on sustainable crop production practices
Not reporting on this Output for this Annual Report

Output #4

Output Measure

- Conduct educational training on sustainable crop production practices to limited resources farm families
Not reporting on this Output for this Annual Report

Output #5

Output Measure

- Develop educational fact sheets on sustainable crop production practices
Not reporting on this Output for this Annual Report

Output #6

Output Measure

- Number of Research Projects
Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O. No. | OUTCOME NAME |
|--------|---|
| 1 | Number of identified best management practice (BMP) and best available technology (BAT) that will be identified. |
| 2 | Number of Cost Benefit Analysis evaluations associated with each BMPs and BATs |
| 3 | Number of educational materials that will be developed to address Best Management Practices and Best Available Technologies |
| 4 | Number of educational materials that will be developed to address Best Sustainable Crop Production |
| 5 | Number of workshops and seminars conducted to Sustainable Agriculture Production |
| 6 | Number of tours and field trips to demonstrate implementation of Sustainable Agriculture Production |
| 7 | Number of participants (farmers/producers) who adopts and implement Sustainable Agriculture Production |

Outcome #1

1. Outcome Measures

Number of identified best management practice (BMP) and best available technology (BAT) that will be identified.

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Number of Cost Benefit Analysis evaluations associated with each BMPs and BATs

Not Reporting on this Outcome Measure

Outcome #3

1. Outcome Measures

Number of educational materials that will be developed to address Best Management Practices and Best Available Technologies

Not Reporting on this Outcome Measure

Outcome #4

1. Outcome Measures

Number of educational materials that will be developed to address Best Sustainable Crop Production

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Number of workshops and seminars conducted to Sustainable Agriculture Production

Not Reporting on this Outcome Measure

Outcome #6

1. Outcome Measures

Number of tours and field trips to demonstrate implementation of Sustainable Agriculture Production

Not Reporting on this Outcome Measure

Outcome #7

1. Outcome Measures

Number of participants (farmers/producers) who adopts and implement Sustainable Agriculture Production

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other (Staff)

Brief Explanation

The researcher who focused on the climate change planned program area relocated to a different university.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

No evaluation results were collected.

Key Items of Evaluation

No key items for evaluation.

V(A). Planned Program (Summary)

Program # 5

1. Name of the Planned Program

Food Safety

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|---|-----------------|-----------------|----------------|----------------|
| 711 | Ensure Food Products Free of Harmful Chemicals, Including Residues from Agricultural and Other Sources | | 60% | | 60% |
| 712 | Protect Food from Contamination by Pathogenic Microorganisms, Parasites, and Naturally Occurring Toxins | | 40% | | 40% |
| | Total | | 100% | | 100% |

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

| Year: 2011 | Extension | | Research | |
|--------------------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 2.0 | 0.0 | 2.0 |
| Actual Paid Professional | 0.0 | 2.0 | 0.0 | 2.0 |
| Actual Volunteer | 0.0 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 119743 | 0 | 146272 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 119743 | 0 | 146272 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)

1. Brief description of the Activity

Improved methods for produce handling, processing and storage will be developed. New biopesticides will be discovered and tested. Judicious use of chemicals on agricultural crops will be encouraged. Toxic residues will be compared. Animal waste will be converted into a slow-release and environmentally-friendly manure. Educational sessions will be conducted in food safety, good agricultural practices, good handling practices, quality control, hazard analysis and critical control points, fresh produce packaging and value-added production. The processing plant will serve as a training laboratory where limited-resource farmers will receive hands-on experience on the activities associated with value-added processing and packaging of foods. Research outcomes and recommendations will be disseminated in educational workshops, field demonstrations, printed educational materials including on-line ASU Extension publications, field days, professional journals, and on the computer network. Research results will be presented at annual meetings of professional societies.

2. Brief description of the target audience

The target audience will consist of County Extension educators, small limited resource farmers and scientific community.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

| 2011 | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|--------|------------------------|--------------------------|-----------------------|-------------------------|
| Actual | 100 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| 2011 | Extension | Research | Total |
|--------|-----------|----------|-------|
| Actual | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Workshops will be conducted to educate farmers on the importance of producing safe food through the use of IPM.

| Year | Actual |
|-------------|---------------|
| 2011 | 2 |

Output #2

Output Measure

- Workshops will be conducted to educate farmers on the importance of producing safe food through the use of Good Agricultural Practices (GAP).

| Year | Actual |
|-------------|---------------|
| 2011 | 2 |

Output #3

Output Measure

- Field days will be conducted to demonstrate the use of IPM.

| Year | Actual |
|-------------|---------------|
| 2011 | 2 |

Output #4

Output Measure

- Field days will be conducted to demonstrate the use of Good Agricultural Practices (GAP).

| Year | Actual |
|-------------|---------------|
| 2011 | 2 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O. No. | OUTCOME NAME |
|--------|---|
| 1 | The intended target audience will gain knowledge and awareness in growing farm products with free or acceptable levels of chemical residue, and safe processing and storage of food products. |

Outcome #1

1. Outcome Measures

The intended target audience will gain knowledge and awareness in growing farm products with free or acceptable levels of chemical residue, and safe processing and storage of food products.

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other ()

Brief Explanation

V(I). Planned Program (Evaluation Studies)

Evaluation Results

The results indicate an increase in knowledge regarding biological control of pest and reducing chemical residue on produce. Future evaluation studies will involve feedback from farmers about the practicality and feasibility of management practices.

Key Items of Evaluation

No key items for evaluations.

V(A). Planned Program (Summary)

Program # 6

1. Name of the Planned Program

Sustainable Energy

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 102 | Soil, Plant, Water, Nutrient Relationships | | 25% | | 25% |
| 133 | Pollution Prevention and Mitigation | | 25% | | 25% |
| 205 | Plant Management Systems | | 25% | | 25% |
| 403 | Waste Disposal, Recycling, and Reuse | | 25% | | 25% |
| | Total | | 100% | | 100% |

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

| Year: 2011 | Extension | | Research | |
|--------------------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 1.0 | 0.0 | 2.0 |
| Actual Paid Professional | 0.0 | 0.0 | 0.0 | 0.0 |
| Actual Volunteer | 0.0 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 0 | 0 | 0 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 0 | 0 | 0 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Conduct Research Experiments.
- Construct Research Facilities.
- Conduct Workshops, meetings.
- Provide Training
 - Demonstartion centers

2. Brief description of the target audience

Livestock and crop farmers, county extension agents, and scientific community.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

| 2011 | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|---------------|------------------------|--------------------------|-----------------------|-------------------------|
| Actual | 0 | 0 | 0 | 0 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| 2011 | Extension | Research | Total |
|---------------|-----------|----------|-------|
| Actual | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Method and result demonstration will be conducted at Alcorn State and clientele sites.
Not reporting on this Output for this Annual Report

Output #2

Output Measure

- Conduct Bio-fuel production training workshops for the business community.
Not reporting on this Output for this Annual Report

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O. No. | OUTCOME NAME |
|--------|--|
| 1 | Number of farmers adopted the energy technology on their farm lands. |
| 2 | Number of business owners adopted the energy technology for commercial production. |

Outcome #1

1. Outcome Measures

Number of farmers adopted the energy technology on their farm lands.

Not Reporting on this Outcome Measure

Outcome #2

1. Outcome Measures

Number of business owners adopted the energy technology for commercial production.

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Other (Grant funding)

Brief Explanation

The interdisciplinary team did not conduct any research or Extension programs related to sustainable energy. A proposal for \$800,000 has been submitted to an international company to support a research program on sustainable energy in collaboration with four institutions.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

No evaluation results.

Key Items of Evaluation

No key items for evaluation.

V(A). Planned Program (Summary)

Program # 7

1. Name of the Planned Program

Childhood Obesity

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

| KA Code | Knowledge Area | %1862 Extension | %1890 Extension | %1862 Research | %1890 Research |
|---------|--|-----------------|-----------------|----------------|----------------|
| 701 | Nutrient Composition of Food | | 5% | | 5% |
| 702 | Requirements and Function of Nutrients and Other Food Components | | 5% | | 5% |
| 703 | Nutrition Education and Behavior | | 80% | | 80% |
| 724 | Healthy Lifestyle | | 10% | | 10% |
| | Total | | 100% | | 100% |

V(C). Planned Program (Inputs)

1. Actual amount of FTE/SYs expended this Program

| Year: 2011 | Extension | | Research | |
|--------------------------|-----------|------|----------|------|
| | 1862 | 1890 | 1862 | 1890 |
| Plan | 0.0 | 1.0 | 0.0 | 2.0 |
| Actual Paid Professional | 0.0 | 1.0 | 0.0 | 2.0 |
| Actual Volunteer | 0.0 | 0.0 | 0.0 | 0.0 |

2. Actual dollars expended in this Program (includes Carryover Funds from previous years)

| Extension | | Research | |
|---------------------|----------------|----------------|----------------|
| Smith-Lever 3b & 3c | 1890 Extension | Hatch | Evans-Allen |
| 0 | 59872 | 0 | 146272 |
| 1862 Matching | 1890 Matching | 1862 Matching | 1890 Matching |
| 0 | 59872 | 0 | 146272 |
| 1862 All Other | 1890 All Other | 1862 All Other | 1890 All Other |
| 0 | 0 | 0 | 0 |

V(D). Planned Program (Activity)

1. Brief description of the Activity

- Conduct Research Experiments.
- Conduct Workshops, meetings.
- Deliver Services.
- Curriculum, Resources.
- Provide Training.
- Provide Counseling.
- Assessments.
- Work with Media.
- Partnering.
- Facilitating.

2. Brief description of the target audience

The target audience is limited-resource families.

3. How was eXtension used?

eXtension was not used in this program

V(E). Planned Program (Outputs)

1. Standard output measures

| 2011 | Direct Contacts Adults | Indirect Contacts Adults | Direct Contacts Youth | Indirect Contacts Youth |
|---------------|------------------------|--------------------------|-----------------------|-------------------------|
| Actual | 200 | 75 | 425 | 25 |

2. Number of Patent Applications Submitted (Standard Research Output)

Patent Applications Submitted

Year: 2011

Actual: 0

Patents listed

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

| | | | |
|---------------|------------------|-----------------|--------------|
| 2011 | Extension | Research | Total |
| Actual | 0 | 0 | 0 |

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

- Conduct health screening for obesity risk factors in adolescence children

| Year | Actual |
|-------------|---------------|
| 2011 | 3 |

Output #2

Output Measure

- Conduct educational program and workshops on obesity and obesity relation illnesses.
Not reporting on this Output for this Annual Report

Output #3

Output Measure

- Conduct intervention to reduce weight gain and life style changes in overweight children.

| Year | Actual |
|-------------|---------------|
| 2011 | 6 |

V(G). State Defined Outcomes

V. State Defined Outcomes Table of Content

| O. No. | OUTCOME NAME |
|--------|---|
| 1 | Increase in the number of participants who are aware of the BMI and their weight status using the IBM scale. |
| 2 | Increase the number of participants with blood pressure at baseline whose blood pressure is under control because of weight loss. |
| 3 | Lower the proportion of participants with high blood cholesterol because they now engage in regular physical activity and practice healthy eating habits. |
| 4 | Decrease the body weight by 7-10% of overweight children. |
| 5 | Decrease the Body Mass Index (BMI) from baseline for overweight children. |

Outcome #1

1. Outcome Measures

Increase in the number of participants who are aware of the BMI and their weight status using the IBM scale.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Childhood obesity in the United States has more than tripled in the past 30 years. Approximately, 40% of Mississippi children are obese or overweight. According to the Center for Disease Control (CDC), an individual is obese if that person has a body mass index (BMI) greater than 30 percent. Overweight is defined as having excess body weight for a particular height from fat, muscle, bone, water, or a combination of these factors. Overweight children tend to (a) miss more school days, (b) increased chance of becoming obese adults, and (c) increased risk for Type II diabetes, heart disease, hypertension, osteoarthritis, sleep apnea, gall bladder disease, and stroke.

What has been done

The Alcorn State University Extension Program (ASUEP) partnered with the ASU Human Sciences Department and implemented an obesity prevention program focusing on modifying dietary behaviors, physical activity, and community gardening. Alcorn Extension staff and Human Science faculty train teachers in Adams and Jefferson Counties on how to utilize the three components to reduce childhood obesity. Approximately 200 youth have participated in the training.

Results

A question and answer format was used to evaluate the sessions. All participants indicated an increase in knowledge regarding modifying, dietary behaviors, physical activity, and community gardening. Participants' blood pressure, BMI, cholesterol, and weight will be measured in three month intervals to determine if the program is helping reduce childhood obesity.

4. Associated Knowledge Areas

KA Code Knowledge Area

703 Nutrition Education and Behavior

Outcome #2

1. Outcome Measures

Increase the number of participants with blood pressure at baseline whose blood pressure is under control because of weight loss.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|------|--------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Childhood obesity in the United States has more than tripled in the past 30 years. Approximately, 40% of Mississippi children are obese or overweight. According to the Center for Disease Control (CDC), an individual is obese if that person has a body mass index (BMI) greater than 30 percent. Overweight is defined as having excess body weight for a particular height from fat, muscle, bone, water, or a combination of these factors. Overweight children tend to (a) miss more school days, (b) increased chance of becoming obese adults, and (c) increased risk for Type II diabetes, heart disease, hypertension, osteoarthritis, sleep apnea, gall bladder disease, and stroke.

What has been done

The Alcorn State University Extension Program (ASUEP) partnered with the ASU Human Sciences Department and implemented an obesity prevention program focusing on modifying dietary behaviors, physical activity, and community gardening. Alcorn Extension staff and Human Science faculty train teachers in Adams and Jefferson Counties on how to utilize the three components to reduce childhood obesity. Approximately 200 youth have participated in the training.

Results

A question and answer format was used to evaluate the sessions. All participants indicated an increase in knowledge regarding modifying, dietary behaviors, physical activity, and community gardening. Participants' blood pressure, BMI, cholesterol, and weight will be measured in three month intervals to determine if the program is helping reduce childhood obesity.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|----------------|--|
| 702 | Requirements and Function of Nutrients and Other Food Components |
| 724 | Healthy Lifestyle |

Outcome #3

1. Outcome Measures

Lower the proportion of participants with high blood cholesterol because they now engage in regular physical activity and practice healthy eating habits.

2. Associated Institution Types

- 1890 Extension
- 1890 Research

3a. Outcome Type:

Change in Knowledge Outcome Measure

3b. Quantitative Outcome

| Year | Actual |
|-------------|---------------|
| 2011 | 0 |

3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

Childhood obesity in the United States has more than tripled in the past 30 years. Approximately, 40% of Mississippi children are obese or overweight. According to the Center for Disease Control (CDC), an individual is obese if that person has a body mass index (BMI) greater than 30 percent. Overweight is defined as having excess body weight for a particular height from fat, muscle, bone, water, or a combination of these factors. Overweight children tend to (a) miss more school days, (b) increased chance of becoming obese adults, and (c) increased risk for Type II diabetes, heart disease, hypertension, osteoarthritis, sleep apnea, gall bladder disease, and stroke.

What has been done

The Alcorn State University Extension Program (ASUEP) partnered with the ASU Human Sciences Department and implemented an obesity prevention program focusing on modifying dietary behaviors, physical activity, and community gardening. Alcorn Extension staff and Human Science faculty train teachers in Adams and Jefferson Counties on how to utilize the three components to reduce childhood obesity. Approximately 200 youth have participated in the training.

Results

A question and answer format was used to evaluate the sessions. All participants indicated an increase in knowledge regarding modifying, dietary behaviors, physical activity, and community gardening. Participants' blood pressure, BMI, cholesterol, and weight will be measured in three month intervals to determine if the program is helping reduce childhood obesity.

4. Associated Knowledge Areas

| KA Code | Knowledge Area |
|---------|--|
| 701 | Nutrient Composition of Food |
| 702 | Requirements and Function of Nutrients and Other Food Components |
| 703 | Nutrition Education and Behavior |
| 724 | Healthy Lifestyle |

Outcome #4

1. Outcome Measures

Decrease the body weight by 7-10% of overweight children.

Not Reporting on this Outcome Measure

Outcome #5

1. Outcome Measures

Decrease the Body Mass Index (BMI) from baseline for overweight children.

Not Reporting on this Outcome Measure

V(H). Planned Program (External Factors)

External factors which affected outcomes

- Competing Programmatic Challenges
- Other (Staff)

Brief Explanation

The Childhood Obesity planned program has encountered competition from other agencies addressing obesity in southwest Mississippi. Additionally, the ASUEP Nutrition Specialists have split appointments between Extension and teaching in the Human Sciences Department. Also, the Physical Fitness and Wellness Educator has a split appointment between Extension and Athletics.

V(I). Planned Program (Evaluation Studies)

Evaluation Results

Youth have increased their knowledge in the areas of modifying dietary behaviors, physical activity, and community gardening. The ASUEP and Human Sciences Department are in the process of modifying the evaluation plan to capture program impact.

Key Items of Evaluation

No key items for evaluation.