

# 2007 Alcorn State University Combined Research and Extension Annual Report

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## I. Report Overview

### 1. Executive Summary

The Plan of Work (POW) of the Alcorn State University is a joint plan between Alcorn State University Extension Program and Research. The combination of the School of Agriculture Extension, Research and Applied Sciences (AREAS) utilizes a comprehensive delivery system to address high priority issues facing limited resource citizens and small farmers in communities throughout the state of Mississippi. Delivery approaches and strategies of its research, educational programs, events, activities and information dissemination addresses relevant researched issues to improve the quality of life of limited resource citizens with a major emphasis on Southwest and Delta counties of Mississippi. This system provides educational and research efforts to limited resource clientele through its staffing arrangements, Outreach Centers, Experiment Station and collaborative partnerships with state universities and other related state agencies, as well as through its technology and media network.

The Alcorn State University Extension and Research staff at the state level consists of state researchers conducting studies and specialists designing, developing and implementing educational programs, events and activities to address relevant issues and situations facing limited resource citizens and small farmers of the state. At the county level, its area staffing plan will implement and disseminate research-based information through its educational programming in counties especially in the Capital River, Delta and Coastal regions of the state. Its three Off-Campus Demonstration Centers, the campus Model Farm, a Farmers Market and other delivery approaches have a multi-focus on relevant issues specific to geographic areas of the state.

The Agronomy Production System program educates limited resource producers and small farmers on the economic importance in soil fertility, nutrient sustainability, and the vital role they play in crop production. The impact of different plant management systems on plant density, row preparation, irrigation sources, application methods and other management practices on the growth and development of each test crop are demonstrated. If it is politically feasible to provide farmers a high price for their product while holding down input cost, farmers will utilize the inputs as they accept the new technology. This new technology allows farmers to increase profitability of their products. New and improved food processing technologies using the mobile syrup processing cooker (Mill on Wheels) is used to educate farmers on how to add value, package and market their syrup crops (sugarcane and sweet sorghum). Fundamental changes occurring in the state and regional economies within which agricultural and horticultural enterprises operate assist in the decrease of syrup producers statewide. The specific implications of these external factors vary greatly by locale and across commodities and business forms.

The Agronomy Production System program focuses on demonstrating research-based information on the agronomic practices required for producing value added and marketing of syrup crops (sugarcane and sorghum). In the efforts of "Reviving the Syrup Industry in Mississippi", the ASU Extension Program (ASUEP) agronomy program demonstrate marketing and distribution practices that will educate sugarcane, sweet sorghum and syrup producers/processors in making their crop or syrup marketing and distributions more profitable.

The Community Resource Planning and Economic Development program is designed to empower and improve the quality of life to promote sustainable social and economic development in communities by utilizing research findings and the best community and economic development practices as models. The planned program conducted educational sessions and disseminated information through workshops, seminars, lectures, training sessions, leadership development planning, demonstrations, asset mapping and other activities within communities. These were geared toward building human capital and effectively empowering people to become the main asset of community and economic development. The educational programs and activities were implemented to address issues in the following areas: Leadership Development, Land Stewardship and Management, Asset Mapping, and Job Fairs & Mentoring activities on Economic Development. The ASUEP Community Resource Planning and Economic Development Program focus on the community's economic planning and development. This planned program collaborates with government officials and local school districts to plan and implement sustainable social, community and economic development. Its goal is to create jobs and improve employment opportunities through small and home-based businesses to enhance human capital development in all forms. In an effort to achieve the goal, various workshops and activities were conducted in the community and obtained positive results.

Agro-forestry, which is the intentional growing of woody plants with row crops, forages, and/or livestock, practices, was used to create a use for non-woody forest products. The forest product used in this research was pine straw. The pine straw was gathered from a nearby pine grove that was not manicured. The pine straw was weighed and debris separated from pickings. After debris was removed, the pine straw was painted with various colors using interior/exterior varieties. The painted pine straw was tested for odor and longevity. The colored straw was further utilized as components in floral arrangements. The floral

arrangements were tested for odor, paint ability, value added potential, and form stability. These arrangements were also designed to provide limited resource farmers with additional income during the maturing process of their pine timbers.

The Human Development and Family Well Being program continues to promote strengthening the family as a basic unit of society, through educational programs for parents, families, and others who care for dependent children and the aging. The program focus on child development, parenting, family relationships, child abuse, and grand parenting along with community strategies for helping families become self sufficient. Programs were designed and delivered to clientele based on the demonstrated need for Mississippians identified by the Environmental Scanning Team and local advisory councils. According to surveys, parents who participate in parenting classes report greater knowledge of child development and increased confidence in parenting,

and decreased rates of abuse and neglect. These programs form the base of education for Family and Consumer Sciences. The Individual and Family Resource Management programs were provided to meet the present needs and future goals of individuals and families. Working as learning partners with adults and youth, as individuals and families, the ASUEP had the capacity and expertise to be key contributors to a financially literate Mississippi.

Human Nutrition, Health, Wellness and Obesity fostered healthy lifestyles through disseminating current nutrition education and behavior research into practical application to address health conditions related to obesity. Technical assistance was provided on a continual basis in the promotion of community activities and events geared toward the improvement of healthy weights, adequate nutrient intake, preventive steps in childhood obesity and intervention steps in managing pre existing medical conditions. The impact of the ASUEP Human Nutrition, Health, Wellness and Obesity program is expected to decrease the incident of major health problems and save medical dollars. The program continues to translate scientific methods of losing and maintaining healthy weights for longevity of life. The nutrition education delivered through multiple intervention programs has made a noticeable impact on decreasing excess weight gain and delaying the onset of chronic diseases. Culturally sensitive educational programs reserve the tradition through healthy modification of southern style recipes. Demonstrations were provided to enhance traditional lifestyles with acceptable recommendation in recipe modification. Participants improved lifestyle changes to prolong the quality of life. The demonstrations included hands-on skill building activities for healthy food choices. The learning activities increased the application of food safety, utilization of natural herbs and spices and phytonutrient rich vegetables to adequately manage heart disease, diabetes and hypertension.

The Economics of Agricultural Production and Farm Management, Business Management, Finance and Taxation, Marketing and Distribution Practices program strives to serve the needs of small and limited resource farmers. The program focuses on addressing problems associated with enterprise and market selection, optimal resource allocation in production and risk management. In marketing and distribution practices, the program focuses on local, niche and regional markets, as well as an understanding of the economic environment, policy, regulatory, and global settings that are constantly changing. The planned program collaborated with government officials and local school districts to plan and implement sustainable social, community and economic development. Its goal is to create jobs and improve employment opportunities through small and home-based businesses to enhance human capital development in all forms.

The Livestock and Poultry Produced program focuses on improving profitability for limited resource farmers by improving the quality of meat through research and educational programs. We focus on reproductive performance of animals including growth rate, feed availability and survival ability with emphasis on reducing infectious diseases among animals. Educational programs, events, and activities were targeted toward reproductive efficiency; the increasing prenatal survival of meat producing animals; the importance of developing control breeding seasons which meet the needs of the targeted market demands; the management of animals during gestation and delivery along with the genetic improvement of animals through the proper selection of breeding stock; and the development of quality herd health plans. The ASU Research Department conducted a study designed to determine the effects of dietary purslane supplements on the chemical composition of muscle and liver and carcass characteristics of growing pigs. In addition, the efficacy of purslane supplementation to regulate serum total cholesterol, LDL – cholesterol, HDL cholesterol and triglycerides in growing pigs was determined. Our outreach programs are highly effective and relevant, driven by a clear strategy, with stakeholders identified, and often participating, in the application of technology or measurement techniques as soon as they are developed. The goal of this program is growing alternative crops through sustainable production practices which will inevitably enhance income potential and the quality of life of Mississippi's limited resource farmers. A series of research and demonstration studies on alternative crops, especially small fruits and vegetables, were conducted at the Alcorn State University research and demonstration centers. The efforts have afforded the opportunities to conduct educational programs, events, and activities for limited resource farmers. During farm demonstrations, field days, seminars and workshops we employed some of the methods that were used to educate farmers' on the above mentioned topics. The results of the programs conducted were encouraging. The evaluations (before and after) indicated an increase in the participants' awareness and knowledge as related to one or more content concepts. In addition, sustainable farming practices were adopted that enabled farmers to improve farming methods.

The Youth At Risk Program developed and implemented educational programs, events and activities that provide a

positive environment. Its structured programs are developmentally appropriate, with clear and concise expectations that will enable children and youth to improve communication and decision-making skills in order to hold leadership roles in their schools and communities and to resist involvement in risky behavior. The programs play an essential role in helping children and youth acquire skills and knowledge to become successful, productive and healthy adults. The programs were delivered using a variety of delivery modes such as: educational sessions (workshops, group meeting); regional/state youth summits; career days and organized school and community clubs/teams in the local schools districts and communities.

The efforts of the Joint Plan of Work, although positive in its forward motion, had some barriers or hurdles to overcome. Each unit, Extension and Research, successfully planned and implemented a course of action separate in addressing issues of the citizens of the state of Mississippi over the years. Although the joint efforts were taxing, due to collaboration between both departments working closely in developing, implementing, and reporting, we feel this course of action is the best and appropriate collaborative direction in addressing the lives of our clients. One of the greatest strengths of the ASUEP is its ability in curtailing information in its simplest form that is conducive to all educational levels. The information provided to our clients is current, effective, necessary and researched material that will directly address the needs of the individuals and their families. The information is expressed in a manner that's conducive to be interpreted in the simplest form so that all who receives it will fully understand it.

#### Total Actual Amount of professional FTEs/SYs for this State

Year:2007	Extension		Research	
	1862	1890	1862	1890
Plan	0.0	51.5	0.0	42.4
Actual	0.0	48.0	0.0	30.9

## 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 is developing a merit program review process to conduct a review of the planned program of the plan of work. The composition of the 11 member Merit Assessment Committee is as follows:

•Three specialists/project directors representing each of the planned program areas •One administrator •Four area educators from counties representing the five program areas •Three representatives from county program and advisory committees

The Extension Administrator of the Extension Program at Alcorn State University serves as the committee chair. The Initial appointments to the committee will be for a three-year period. The committee will meet two times a year to review programs.

#### Evaluation Criteria

Three evaluation criteria will be used to establish the merit review process for extension programs. These include relevance, capacity, and impact.

•Relevance refers to the appropriateness/applicability of programs to address the critical issues facing Mississippi.  
•Capacity is the ability of extension professionals to develop, implement, and evaluate extension programs. • Impact refers to the effectiveness of extension programs in accomplishing the goals.

The review is scheduled to be conducted in the fall of 2008.

Local county reviews were conducted in all counties in by ASU-EP area extension educators the educators assessed county needs and develop their yearly Program Development Agreement (PDA), these plans were reviewed internally by the regional coordinator and State Program Specialist of each planned program in which each provide feedback. PDA's were also shared with County Extension Advisory Council and Program Committees for review and feedback.

### **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**

This grassroots information gathering approach will determine how the Alcorn Extension organization directs or redirects its efforts, and promote an action-based team response to the critical areas of concern for our targeted population. The plan allows for the 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. The aim is to set aside preconceptions about what limited resources people are seeking and to gain a more precise and dynamic picture of them and their existing conditions. This provides a more accurate basis for identifying those factors that impede livelihood development and poverty reduction.

#### **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 First Tier is where this model begins with a series of Town Hall Open Forums and subsequent Focus Group/Action Planning Meetings. Utilize the County Advisory Committee and Identify the most needed geographical areas and limited resources clientele to which the delivery program efforts will be targeted. This Planning team was made up of ASU Extension staff, two (2) representatives from City and County Government, (2) Community Leaders, two (2) Finance or Economic Members, Advisory groups, and other stakeholders to total no more than seven outside of Extension. They have assisted the Extension staff in planning the initial Town Hall meeting.

#### **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 eight Town Hall meetings were structured to provide a simplistic means of collecting data. The meetings were planned in detail and executed to facilitate the desired end—a gathering of pertinent information that would assist the Alcorn State Extension Program in identifying the critical needs/issues of limited resource communities as the populace of the communities viewed them.

These meetings were a platform created for the residents in limited resource and disadvantage communities to give voice to their needs and concerns. The setup and conducting of the meetings were handled in a manner that made them feel comfortable expressing their thoughts. The role of the program was to listen and support the open discussion of their expressed issues and perspectives in a way that promoted engagement of all participants.

Alcorn State University Extension Program developed the Individual Client Service Plan (ICSP) as a proactive approach to assess and determine the most effective method in allocating limited personnel and resources, (technical and practical) to address the increasing critical needs of the citizens in the state of Mississippi.

The Major objective was the development of a comprehensive assessment instrument, which allows the analysis data collected to direct the appropriate technical assistance to utilize and to implement the correct recommended educational activities.

The approaches of the ASU-EP ICSP Programs is Five folds

1. Comprehensive Assessment of Resources and Clientele Needs
2. Analysis of data collected on individual Families.
2. Rapid Response to the urgency of the Individual Families and/or Clients
3. Resource persons required to implement recommendations

### **3. A statement of how the input was 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**

This grassroots information gathering approach determines how the ASU Extension organization directs or redirects its efforts, and promotes an action-based team response to the critical areas of concern for our targeted population. The plan allows for the 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. The aim is to set aside preconceptions about what limited resources people are seeking and to gain a more precise and dynamic picture of them and their existing conditions. This provides a more accurate basis for identifying those factors that impede livelihood development and poverty reduction. The data collected is use to formulate Focus groups and then issues teams that will develop action plan at the county level with the county staff and other local entities and organizations. The information is analyzed and presented to the entire staff to be apart of the update process when developing the yearly Plan of Work.

**Brief Explanation of what you learned from your Stakeholders****Human Relations**

Youth involvement with drug sales and usage was an issue they thought could be countered with structured after school programs. Summer work youth mentoring programs are needed. Establish a meaningful drug education initiative. High crime rates and senior citizen daycare, and the high cost of child daycare were also concerns that were mirrored from community to community. Parenting skill enrichment, family planning education, and absentee fathers led the field in this category of concerns.

**Education**

The participants felt the scope of the educational process should be broadened to incorporate alternative educational training (i.e. workforce preparedness, adult technical training, personal finance education, and nutritional education). Basically, in every meeting there was a call for educational reform.Reform as they saw it included more funding for local schools, improved curriculums, better teachers, and after school tutoring programs.

**Jobs**

It was known that better job opportunities were the key to the reduction of the attrition rate of young people leaving Mississippi communities to seek employment in other states. They thought better community development programs should be implemented and include aggressive campaigns to attract new industry that will bring white collar, hi-tech, and better paying blue collar positions into the state.

**Housing**

The high number of substandard housing units, lack of funds for home repairs, the inability to purchase homes, the availability of enough quality housing structures, and problems in securing financing for home purchases were recurring themes.Also, there was a great deal of concern for the quality of senior citizen housing, housing assistance for single parents, and education in the area of home ownership.

**Community Services**

Many communities shared concerns for poor roads, streets, sidewalks and bridge conditions, the quality of community services, and community leadership.

**Environment**

Residents saw a need for improved air and water quality, recycling, and waste disposal programs. Some saw a large portion of their communities as highly shattered areas and would like conditions remedied through community clean up and beautification programs.

**IV. Expenditure Summary**

<b>1. Total Actual Formula dollars Allocated (prepopulated from C-REEMS)</b>			
<b>Extension</b>		<b>Research</b>	
<b>Smith-Lever 3b &amp; 3c</b>	<b>1890 Extension</b>	<b>Hatch</b>	<b>Evans-Allen</b>
0	1653486	0	2047786

2. Totaled Actual dollars from Planned Programs Inputs				
Extension			Research	
	Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
Actual Formula	0	1653486	0	2047787
Actual Matching	0	1653486	0	2047787
Actual All Other	0	0	0	0
Total Actual Expended	0	3306972	0	4095574

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

**V. Planned Program Table of Content**

<b>S. NO.</b>	<b>PROGRAM NAME</b>
1	Human Development and Family Well-Being
2	Youth - At - Risk
3	Sustainable Animal Production Systems
4	Sustainable Horticulture Production Systems
5	Community Resource Planning & Economic Development
6	Small Family Farm Enterprise Financial Analysis, Management, and Marketing
7	Forestry Natural Resources and Preservation
8	Human Nutrition, Health, Wellness and Obesity
9	Agronomy Production Systems



**Program #1****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Human Development and Family Well-Being

**V(B). Program Knowledge Area(s)****1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
801	Individual and Family Resource Management		50%		0%
802	Human Development and Family Well-Being		50%		0%
	<b>Total</b>		100%		0%

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	4.0	0.0	0.0
<b>Actual</b>	0.0	4.0	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	137790	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	137790	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 Alcorn State University Extension Program for Human Development and Family Well Being program continues to promote strengthening the family as a basic unit of society, through educational programs for parents, families, parents and others who care for dependent children and the aging. The programs focus on child development, parenting, family relationships, child abuse, and grand parenting along with community strategies for helping families become self sufficient. Programs were designed and delivered to clientele based on the demonstrated need for Mississippians identified by environmental scanning team and local advisory councils. According to surveys parent who participate in parenting classes report greater knowledge of child development and increased confidence in parenting, and decreased rates of abuse and neglect. These programs form the base of education for Family and Consumer Sciences.

The Individual and Family Resource Management programs were provided to effectively meet present needs and future goals individuals and families. Working as learning partners with adults and youth, as individuals and families, the ASUEP had the capacity and expertise to be key contributors to a financially literate Mississippi. Appropriate actions are being taken to provide quality information on how to strengthen family relationships through improved parenting skills, financial management, problem solving skills, empowerment, conflict resolution, effective communication, and stress management. In addition, Extension personnel are equipped to make appropriate referrals for family services, support services, and self help support groups.

Hundreds of individuals and families across the state were contacted, taught, mentored, encouraged, and impacted by the combined efforts of county partners working on ASUEP objectives during the year. The many educational efforts initiated and facilitated by County Family and Consumer Sciences Educators were immeasurably enhanced by f volunteers, collaborators, county government representatives, funding partners, state faculty members, and many members of our support staffs. Literally none of our successes were accomplished without a coordinated team effort.

The results of the educational programs conducted throughout the state are quite impressive. Utilizing the evaluations and revised evaluations were taken on a number of impact indicators. The awareness and knowledge levels related to one or more content concepts of participants were increased. In addition to learning concepts persons reported adopting practices as a result of Extension programs that enabled them to be more effective parents, while other learners perceived stronger family relationships as a result of participating in ASUEP educational opportunities. An overall improvement in the quality of life was reported by program participants. The estimated amount of professional FTEs/Sys to be budgeted for this program year was 7,280.

## 2. Brief description of the target audience

The target audiences are limited resource families, single parent families, and individuals in the state of Mississippi.

### V(E). Planned Program (Outputs)

#### 1. Standard output measures

##### Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	1050	3000	100	300
2007	600	200	91	60

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

##### Patent Applications Submitted

Year	Target
Plan:	0
2007 :	0

##### Patents listed

**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>			
2007	0	0	0

**V(F). State Defined Outputs****Output Target****Output #1****Output Measure**

- The number of activities in Human Development & Family Resource Management

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	18	28

**Output #2****Output Measure**

- Events conducted in Human Development & Family Resource Management

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	12	1

**Output #3****Output Measure**

- Target Activities Human Development and Family Resource Management

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	60	36

**Output #4****Output Measure**

- News bulletins Human Development and Family Resource Management

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	12	0

**Output #5****Output Measure**

- Radio/TV programs developed for human developemnt.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	3	0

**Output #6****Output Measure**

- Radio/TV programs developed for human developemnt.

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	3	0

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

O No.	OUTCOME NAME
1	Percent of limited resource participants reporting to have applied positive parenting practices
2	Percent of limited resource participants reporting to have applied good infant and child care practices
3	Percent of limited resource participants reporting to have used child care quality characteristics in their care selection
4	Percent of limited resource participants to develop and utilize skills to analyze financial statements to make effective managerial and financial decisions
5	Percent of parents/relative caregivers reporting to have experienced positive change in parent-child relationships that they attribute to implementing new parenting behaviors learned in educational programs
6	Percent of child care providers, child care programs or parents reporting improved child care as a result of participating in educational programs
7	Percent decrease in financial in debt for utilized financial and credit management
8	Percent of (target contact) limited resource participant to gain knowledge of financial management skills of preparing a budget, developing a financial emergency plan, credit management, and identify theft
9	Percent of youths to gain knowledge and develop sound consumer and financial skills to assist in family financial management
10	Percent of (target contact) program participants who demonstrate knowledge or skill gained related to positive parenting practices and child care needs

**Outcome #1****1. Outcome Measures**

Percent of limited resource participants reporting to have applied positive parenting practices

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	7

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Previous evaluation shows that parents concerns about developmental appropriate practices, limits and childrens safety.

**What has been done**

Educational program were provided to assist parents with appropriate limits and practices. Information was also conducted on child safety.

**Results**

As a result of these educational program parents expressed an understanding for the need to have limits and the importance of communication and the importance child safety locks and why a child's environment should be a safe haven.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
801	Individual and Family Resource Management

**Outcome #2****1. Outcome Measures**

Percent of limited resource participants reporting to have applied good infant and child care practices

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	7

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

The high incidence of a lack of infant and child care practices among parents

**What has been done**

Developed curriculum, trained educators, conducted educational session with teen parent and parenting groups

**Results**

Conducted educational session in communities and schools to parenting groups to strengthen parenting practices for infants and child care facilities.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
802	Human Development and Family Well-Being

**Outcome #3****1. Outcome Measures**

Percent of limited resource participants reporting to have used child care quality characteristics in their care selection

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	10	7

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Mississippi child-care providers are struggling to meet the needs of families throughout the state.

**What has been done**

Developed curriculum, trained educators, conducted educational session with teen parent and parenting groups

**Results**

Conducted twenty-two (22) educational session in communities and schools with parenting groups and teen which evaluation showed participants increased their knowledge on the quality of child care facilities.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
802	Human Development and Family Well-Being

**Outcome #4****1. Outcome Measures**

Percent of limited resource participants to develop and utilize skills to analyze financial statements to make effective managerial and financial decisions

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	10	7

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Mississippians lacks financial plan to begins and achieve their goals and objectives reflecting values, attitudes, lifestyle circumstances, needs, and wants.

**What has been done**

Developed curriculum, trained educators, conducted educational sessions on short, intermediate and long term goals.

**Results**

Evaluations indicated that participants understood the importance of analyzing financial statements and the effects management decision makes on the short, intermediate and long term goals.

**4. Associated Knowledge Areas**

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

**Outcome #5****1. Outcome Measures**

Percent of parents/relative caregivers reporting to have experienced positive change in parent-child relationships that they attribute to implementing new parenting behaviors learned in educational programs

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	5	3

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Lack of parents, relatives and caregivers knowledge of the importance of positive parenting with children and how it impacts childrens lives.

**What has been done**

Developed curriculum, trained educators, conducted educational sessions to increase child-care, parent, and relative knowledge about positive parenting.

**Results**

Conducted educational sessions in communities and schools with parents, relatives, and child-care facilities on the importance of words and action when caring for children.

**4. Associated Knowledge Areas**

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

**Outcome #6****1. Outcome Measures**

Percent of child care providers, child care programs or parents reporting improved child care as a result of participating in educational programs

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	5	3

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Child care providers lack of knowledge about skills to lead to safer more nurturing and appropriate environment for children.

**What has been done**

Developed curriculum, trained educators, conducted educational sessions to increase child-care, parent, and relative knowledge about positive parenting.

**Results**

Developed curriculum, trained educators, conducted educational sessions to increase child-care, parent, and relative knowledge about positive parenting.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
801	Individual and Family Resource Management

**Outcome #7****1. Outcome Measures**

Percent decrease in financial in debt for utilized financial and credit management

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	5	3

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

The commerce department recently reported in 2005, Americas personal savings rate was a whopping -0.5%. Americas average personal savings was negative.

**What has been done**

Developed curriculum, trained educators, conducted educational sessions to increase child-care, parent, and relative knowledge about positive parenting.

**Results**

Participants acknowledge learning that there are two basic spending categories, needs and wants. Needs are necessities, such as food, shelter, healthcare, and transportation. Wants are extras but are not necessary.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
801	Individual and Family Resource Management



**Outcome #8****1. Outcome Measures**

Percent of (target contact) limited resource participant to gain knowledge of financial management skills of preparing a budget, developing a financial emergency plan, credit management, and identify theft

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	12

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Mississippi families lack the educational information to meet their needs while keeping pace with day-to-day expenses and addressing the basics of spending, saving, and investing.

**What has been done**

Eighteen (18) educational programs were delivered through workshops, group meetings, one-on-one contact, and media outlets.

**Results**

As a results over three hundred (300) clients stated through evaluation and surveys that their knowledge about financial management skills concerning budgeting, and credit management.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
801	Individual and Family Resource Management

**Outcome #9****1. Outcome Measures**

Percent of youths to gain knowledge and develop sound consumer and financial skills to assist in family financial management

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	12

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Financial management skills among youth ranging from those in elementary schools to university students are in disarray. Youth are still struggling with saving money and the economics, and management concepts which are necessary skills leading to a good quality of life.

**What has been done**

Several workshops were conducted to provide youth to provide financial planning and how to create a practical budget and smart consumption, as well as creating awareness of savings and investment concepts.

**Results**

Evaluations indicated that youth understood the concepts of saving money and the importance of budgeting and making smart decisions on money matters early in life.

**4. Associated Knowledge Areas**

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

**Outcome #10****1. Outcome Measures**

Percent of (target contact) program participants who demonstrate knowledge or skill gained related to positive parenting practices and child care needs

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	12

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

The statistics on parenting and abuse are alarming. Poor parenting skills are linked to abuse and neglect as well as youth behavior problems including teen pregnancy, substance abuse, and violence.

**What has been done**

Educational workshops provide families with the information needed to develop effective parenting skills, as well as the opportunity to become an active in their child's activities and lives.

**Results**

Informational newsletters and training programs discussing language development and learning skills to proper nutrition to anger management are all ways that were conducted to provide parents educational information about working together to enhance their skills and child's well-being.

**4. Associated Knowledge Areas**

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

**V(H). Planned Program (External Factors)****External factors which affected outcomes**

- Economy
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration, new cultural groupings, etc.)

**Brief Explanation**

External Factors affecting the programs was the lack of the availability of personnel to implement the program. Personnel changes need to be upgraded to assist with implementation of programs. Economy and funding of programs were also a factor due to changes in staffing structure on the county and state level. There were also competing programmatic challenges relating to the educational focus and the lack of state personnel to provide the necessary needs and program strategy. However, the evaluation conducted at the end of programs did show that ninety five percent of the clientele increased their knowledge and would be willing to attend other extension programs.

**V(l). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- After Only (post program)
- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)

**Evaluation Results**

Data was collected after program by written evaluations and focus groups were to provide additional information. Post-test were also conducted to further gather needed information on programs. Evaluation determined the merit, worth, and significance of something or someone. Evaluations were conducted after the programs were completed. Since there was a change in state staff evaluations few and reported on an increase in knowledge bases. Written evaluations and focus groups were conducted to provide additional information on program information.

**Key Items of Evaluation**

**Program #2****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Youth - At - Risk

**V(B). Program Knowledge Area(s)****1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
802	Human Development and Family Well-Being		35%		0%
806	Youth Development		65%		0%
	<b>Total</b>		100%		0%

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	5.5	0.0	0.0
<b>Actual</b>	0.0	5.5	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	189463	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	189463	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 future of our society depends on the positive development of our children and youth within their families. The Alcorn State University Extension (ASUEP) Youth At Risk Program has developed and implemented educational programs, events and activities that provided a positive environment with structured programs that are developmentally appropriate, with clear and concise expectation that will enable children and youth to improve the communication and decision making skills to be able to take on leadership roles in their schools and communities and to resist involvement in risky behaviors. These programs play an essential role in helping children and youth acquire the skills and knowledge to help them become successful, productive and healthy adults. These programs were delivered using a variety of delivery modes such as: educational sessions (workshops, group meeting); regional/state youth summits; career days and organized school and community clubs/teams in the local schools districts and communities. The programs areas are: (1) Pregnancy Prevention Program utilizing a curriculum entitled Let's Talk about it: Keep Teens Safe; to increase youth knowledge regarding pregnancy and sexually transmitted diseases and to increase their communication and negotiation skills regarding sexual activity and risky behavior. (2) Tobacco Education Smoking Tobacco Ain't Right for You: Project STAR; (3) Career Development/Workforce Preparedness, utilizing The Working Class Curriculum and (4) 4-H Youth Development Using curriculum entitled What Is 4-H which includes Volunteer Development using a curriculum entitled Developing Leaders to Organize School and Community Clubs to Build Strong Communities.

## 2. Brief description of the target audience

The target audiences are at risk resource children and youth age 5-18 and adult volunteers .

## V(E). Planned Program (Outputs)

### 1. Standard output measures

#### Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	300	500	4800	1200
2007	300	500	5461	1785

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

#### Patent Applications Submitted

Year      Target

Plan:     0

2007 :    0

#### Patents listed

### 3. Publications (Standard General Output Measure)

#### Number of Peer Reviewed Publications

	Extension	Research	Total
Plan			
2007	0	0	0

## V(F). State Defined Outputs

### Output Target

**Output #1****Output Measure**

- Conduct monthly educational sessions for age appropriate tobacco teams in school and communities using the Project STAR Tobacco Curriculum

Year	Target	Actual
2007	12	58

**Output #2****Output Measure**

- Conduct educational sessions in local schools and communities using Let s Talk about IT.

Year	Target	Actual
2007	50	59

**Output #3****Output Measure**

- Conduct educational activities entitled "Baby Think it Over will help youth explore the emotional, financial and social consequences of teen parenting

Year	Target	Actual
2007	10	5

**Output #4****Output Measure**

- Plan and implement Youth tobacco summits to provide youth an opportunity to network and share resources and life experiences

Year	Target	Actual
2007	6	6

**Output #5****Output Measure**

- Conduct educational sessions utilizing the Working Class Curriculum local schools and in Communities

Year	Target	Actual
2007	50	50

**Output #6****Output Measure**

- Conduct Career Day/Fair and tours on workforce development

Year	Target	Actual
2007	5	5

**Output #7****Output Measure**

- Conduct volunteer leaders training to organize school and community based clubs

Year	Target	Actual
2007	5	5

**Output #8****Output Measure**

- Conduct and Participate in each 4-H : Achievement Days , State club congress, and State fair exhibits National education activity

Year	Target	Actual
2007	5	5

**Output #9****Output Measure**

- Attend and participate in National 4-H Congress participate in national education activities

Year	Target	Actual
2007	5	5

**Output #10****Output Measure**

- Organize tobacco education clubs

Year	Target	Actual
2007	12	32

**Output #11****Output Measure**

- Conduct Career Development career days/fairs and tours

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	0	0

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

O No.	OUTCOME NAME
1	Increase percent of youth participating in teen pregnancy and sexually transmitted diseases program
2	Percent Increase in knowledge gained regarding tobacco us, secondhand smoke and health consequences
3	Percent increase in youth knowledge of career development/workforce opportunities and skill needed to pursue them
4	Increase percent of youth participating in leadership opportunities in schools and communities
5	Increase percent of knowledge gained of job readiness techniques and career search skills
6	Percent of youth benefiting from Teen pregnancy /STD Program
7	The number of youth benefiting for the teen pregnancy /STD Program. Decrease in the number of teen pregnancies and youth contracting STD's. Decrease the number of youth who use tobacco and tobacco products.
8	Number of youth who developed good communication and interviewing skills. Number of youth learning effective job readiness skills. Increase the job readiness skills of limited resource youth.
9	Number of youth able to demonstrate the proper skills to develop a cover letter resume and Job application.
10	Increase the number of minority youth participating in youth programs.
11	Reduce the number of health care cost for the state due to teen pregnancy and STD infection.
12	Reduce the incidence of youth tobacco use and decrease the health care cost for the state.
13	Increase the number train adult volunteer to organize and manage youth in school and community based clubs.



**Outcome #1****1. Outcome Measures**

Increase percent of youth participating in teen pregnancy and sexually transmitted diseases program

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	25

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Mississippi has experienced an increase in the number of teen pregnancy, and still has the highest teen pregnancy rate in the nation at 21%. In 2007, according to the Mississippi State Department of Health, 7,347 teens between the ages of the state also has seen an increase in the infection rate of Sexually Transmitted Diseases (STD's). In 2007 the STD infection rate increase by 15% among teens ages 13 18.

**What has been done**

Developed one curriculum entitled 'Let Talk About It: Keep Teens Safe,,' conducted two staff trainings to train educators, 1,564 youth participated in 58 educational sessions (workshops/group meetings), in local schools and communities; and planned and conducted four awareness exhibits at fairs, and festivals in various communities.

**Results**

According to Pregnancy Prevention Evaluation Data Set 40% of youth participating in the pregnancy Prevention program obtained information to help them make decisions that will reduce the number of teen pregnancies and reduce the number of youth contacting STD's.

**4. Associated Knowledge Areas**

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

**Outcome #2****1. Outcome Measures**

Percent Increase in knowledge gained regarding tobacco us, secondhand smoke and health consequences

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	25

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

According to Mississippi State Department of Health youth tobacco use has been on the rise in both middle and high schools in Mississippi. This will result in an increased rate of health related consequences for youth such as: health disease, cancer (lung) and other respiratory illnesses.

#### **What has been done**

Developed one curriculum entitled , ' Smoking Tobacco Ain,'t Right for you: Project STAR; conducted two staff trainings to training area educators; planned and conducted two Youth Tobacco Summits there were 2,287 youth participating; 388 youth participated in 45 organized youth tobacco teams.

#### **Results**

The Tobacco Education Survey used to evaluate the Youth Tobacco Summit indicated that 49% of the youth participants reported that as a result of participating in this program, they would not use tobacco or tobacco products, 35% of the youth participating understood the consequences of tobacco use as a teen.

#### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
802	Human Development and Family Well-Being

### **Outcome #3**

#### **1. Outcome Measures**

Percent increase in youth knowledge of career development/workforce opportunities and skill needed to pursue them

#### **2. Associated Institution Types**

•1890 Extension

#### **3a. Outcome Type:**

Change in Knowledge Outcome Measure

#### **3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	25	25

#### **3c. Qualitative Outcome or Impact Statement**

##### **Issue (Who cares and Why)**

In rural Southwest Mississippi there are very few employment opportunities for minority limited resources youth and limited number of youth who have the skills necessary to seek and obtain the few available employment opportunities.

##### **What has been done**

Developed one curriculum entitled The Working Class; conducted two trainings to train Area Educators; 510 youth participated in 50 educational sessions, to obtain job readiness skills in local schools and communities.

##### **Results**

According to the Job Expectation Survey used to evaluate the program 40% of the youth participating in the in the educational sessions understood the job readiness information and the activities provided skills that would aid them in the job search process.

#### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
802	Human Development and Family Well-Being

### **Outcome #4**

#### **1. Outcome Measures**

Increase percent of youth participating in leadership opportunities in schools and communities

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	25

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

In rural Mississippi there are a limited number of minority youth from limited resource families who participate in educational and leadership opportunities at the local, state and national levels. Participation is low mainly because of the lack of knowledge and available opportunities or lack of financial resources.

**What has been done**

Planned and Recruited minority youth to participate in five leadership events local, state and national leadership opportunities. The events are: Career Day; Project Achievement Day, State 4-H Congress; National 4-H Congress and National 4-H Conference.

**Results**

From observation the 27 youth who participated in the five leadership activities at the local, state and national level 25% placed first and second in the various events.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
806	Youth Development

**Outcome #5****1. Outcome Measures**

Increase percent of knowledge gained of job readiness techniques and career search skills

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	25

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

In rural Mississippi there are a limited number of minority youth from limited resource families who participate in educational and leadership opportunities at the local, state and national levels. Participation is low mainly because of the lack of knowledge, availability opportunities or lack of financial resources.

**What has been done**

Planned and Recruited minority youth to participate in five leadership events local, state and national leadership opportunities. The events are: Career Day; Project Achievement Day, State 4-H Congress; National 4-H Congress and National 4-H Conference.

**Results**

From observation the 27 youth who participated in the five leadership activities at the local, state and national level 25% placed first and second in the various events.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
806	Youth Development

**Outcome #6****1. Outcome Measures**

Percent of youth benefiting from Teen pregnancy /STD Program

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	25

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

According to the Mississippi State Department of Health there has been an increase in the number of pregnancies among teens ages 13-18. The report indicates an increase in the number of reported cases of STD among this age group in the various counties in rural Southwest Mississippi.

**What has been done**

Developed one curriculum entitled 'Let Talk About It: Keep Teens Safe,,,' conducted two staff trainings to train educators, 1,564 youth participated in 58 educational sessions (workshops/group meetings), in local schools and communities; and planned and conducted four awareness exhibits at fairs, and festivals in various communities.

**Results**

According to Pregnancy Prevention Evaluation Data, 40% of youth participating in the Pregnancy Prevention Program stated that the information they received will be useful to them when making decisions about becoming sexually active.

**4. Associated Knowledge Areas**

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

**Outcome #7****1. Outcome Measures**

The number of youth benefiting for the teen pregnancy /STD Program.  
Decrease in the number of teen pregnancies and youth contracting STD's.  
Decrease the number of youth who use tobacco and tobacco products.

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

For the last four years Mississippi had seen a decline in the pregnancy rate of teens age 13-18. Today, according to reports from the Mississippi Department of Health and Campaign to Prevent Teen Pregnancy the pregnancy rates and STD infection rate are increasing.

**What has been done**

Developed one curriculum entitled 'Let Talk About It: Keep Teens Safe,' conducted two staff trainings to train educators, 1,564 youth participated in 58 educational sessions (workshops/group meetings), in local schools and communities; and planned and conducted four awareness exhibits at fairs, and festivals in various communities.

**Results**

The Pregnancy Prevention evaluation reported that 40% of youth participating in the Pregnancy Prevention Program stated that the information they received will help them make effective decisions about becoming sexually active.

**4. Associated Knowledge Areas**

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

**Outcome #8****1. Outcome Measures**

Number of youth who developed good communication and interviewing skills.  
Number of youth learning effective job readiness skills. Increase the job readiness skills of limited resource youth.

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Because of limited resources and reduction in staff in many rural schools in Southwest Mississippi, they are unable to provide job readiness programs for their students to properly prepare them for the workforce.

**What has been done**

Developed one curriculum entitled 'The Working Class,'; conducted two trainings to train Area Educators; 510 youth participated in 50 educational sessions and five career fairs to obtain job readiness skills in local schools and communities.

**Results**

According to the job readiness survey, 45% of the youth participating in the job readiness program increase their knowledge about the job search process. 40 % of youth participating in the program reported an increase in their communication and interviewing skills.

#### 4. Associated Knowledge Areas

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

#### Outcome #9

##### 1. Outcome Measures

Number of youth able to demonstrate the proper skills to develop a cover letter resume and Job application.

##### 2. Associated Institution Types

•1890 Extension

##### 3a. Outcome Type:

Change in Action Outcome Measure

##### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2007	10	10

##### 3c. Qualitative Outcome or Impact Statement

###### Issue (Who cares and Why)

In rural school across Southwest Mississippi many student do not have access to job readiness program that provide them with the skills needed to seek and obtain a job.

###### What has been done

Developed one curriculum entitled The Working Class; conducted two trainings to train Area Educators; 510 youth participated in 50 educational sessions, to obtain job readiness skills in local schools and communities.

###### Results

After reviewing the job readiness portfolio of the participants 40% of the youth participating has gained the skills necessary to complete a cover letter, resume and job application for their portfolio.

#### 4. Associated Knowledge Areas

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

#### Outcome #10

##### 1. Outcome Measures

Increase the number of minority youth participating in youth programs.

##### 2. Associated Institution Types

•1890 Extension

##### 3a. Outcome Type:

Change in Action Outcome Measure

##### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2007	10	10

##### 3c. Qualitative Outcome or Impact Statement

**Issue (Who cares and Why)**

There has been limited participation of minority youth participating in 4-H youth development programs, events and activities at the local state and national levels due to limited resources an opportunities.

**What has been done**

Planned and conducted one Project Achievement Day; one State Club Congress; collaborated with National 4-H Council and National Program Leaders for Mission Mandate to secure funds for 4 youth and one adult to attend National 4-H Conference; recruited youth and secures funds 4 youth to attend National 4-H Congress.

**Results**

Increase the number trained and volunteers to organize and manage youth in school and community based clubs.

**4. Associated Knowledge Areas**

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

**Outcome #11****1. Outcome Measures**

Reduce the number of health care cost for the state due to teen pregnancy and STD infection.

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)****What has been done****Results**

Long Term Goal

**4. Associated Knowledge Areas**

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

**Outcome #12****1. Outcome Measures**

Reduce the incidence of youth tobacco use and decrease the health care cost for the state.

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

No impact at this time  
Long term goal

**What has been done****Results****4. Associated Knowledge Areas**

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

**Outcome #13****1. Outcome Measures**

Increase the number train adult volunteer to organize and manage youth in school and community based clubs.

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Because there are a limited number of trained adult volunteer leader to recruit youth; organize school and community clubs and work with youth in these clubs.

**What has been done**

Developed one curriculum entitled Developing Leaders to Organize School and Community Clubs to Build Strong Communities; conducted two trainings to train Area Educators and conducted five trainings for adult 4-H Volunteers.

**Results**

Increased the number of trained adult volunteers by 25% to organize and conduct educational programs and projects in school and community clubs.

**4. Associated Knowledge Areas**

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



## **V(H). Planned Program (External Factors)**

### **External factors which affected outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Other (Relocation of youth)

### **Brief Explanation**

The reduction in the numbers in the outputs in the tobacco education are due to appropriation changes the tobacco education funds that were awarded to Alcorn State University the conduct tobacco education programs have been deviated to the State Medicare/Medicaid division by the Governor.

## **V(I). Planned Program (Evaluation Studies and Data Collection)**

### **1. Evaluation Studies Planned**

- Before-After (before and after program)

### **Evaluation Results**

Data was collected before and after the pregnancy prevention programs using the prevention survey developed from the Prevention Minimum Evaluation Data Set Jr. (PMEDSJ). The tobacco education program was evaluated using the Tobacco education survey evaluation tool that was developed to collect program impact data and determine the effectiveness of the program. The Workforce Development Program was evaluated using the Job Expectation Survey developed to collect impact data and to determine the effective on the program, the 4-H Youth Development and Volunteer Development Programs will be evaluated using the evaluation tools for the educational curriculum.

### **Key Items of Evaluation**

**Program #3****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Sustainable Animal Production Systems

**V(B). Program Knowledge Area(s)****1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
301	Reproductive Performance of Animals		20%		20%
302	Nutrient Utilization in Animals		15%		15%
303	Genetic Improvement of Animals/ Emphasis on Meat Quality		15%		15%
305	Animal Physiological Processes		15%		15%
308	Improved Animal Products (Growth & Development)		20%		20%
311	Animal Diseases		15%		15%
<b>Total</b>			100%		100%

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	3.0	0.0	13.5
<b>Actual</b>	0.0	3.0	0.0	13.5

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

Extension		Research	
<b>Smith-Lever 3b &amp; 3c</b> 0	<b>1890 Extension</b> 103343	<b>Hatch</b> 0	<b>Evans-Allen</b> 894664
<b>1862 Matching</b> 0	<b>1890 Matching</b> 103343	<b>1862 Matching</b> 0	<b>1890 Matching</b> 894664
<b>1862 All Other</b> 0	<b>1890 All Other</b> 0	<b>1862 All Other</b> 0	<b>1890 All Other</b> 0

**V(D). Planned Program (Activity)****1. Brief description of the Activity**

The goal of the program is to improve the profitability of livestock and poultry produced by limited resource farmers by improving the quality of meat through research and educational programs. We focused on reproductive performance of animals including growth rate, feed, availability and survival ability with emphasis placed on reducing infectious diseases among animals. Educational programs, events, and activities were targeted toward reproductive efficiency and increasing in the prenatal survival of meat producing animals, the importance of developing control breeding seasons which meet the needs of the targeted market demands, management of animals during gestation and delivery along with the genetic improvement of animals through the proper selection of breeding stock and the development of quality herd health plans. Through these planned programs, events, and activities were able to provide 1996 small and limited resource farmers and 700 youth the opportunity to enhance their knowledge of sustainable Animal Production and the potential to increase income and the quality of life among small family farms.

The ASU Research conducted a study designed to determine the effects of dietary purslane supplements on the chemical composition of muscle and liver, and carcass characteristics of growing pigs. In addition, the efficacy of purslane supplementation to regulate serum total cholesterol, LDL – cholesterol, HDL cholesterol and triglycerides in growing pigs was determined. Overall, our results indicate that: a potential in the pig industry to use this novel feed additive rich with omega-3 fatty acids and antioxidant vitamins to produce novel pork and pork products for niche markets. Because of our studies, a potential exists in the pig industry to use purslane to produce novel pork and pork products and to lower the incidence of cardiovascular disease risk in pork consumers. We have successfully incorporated modern pork production technologies, into the undergraduate swine production and management curriculum through enhanced experiential learning opportunities using a problem based learning (PBL) approach. We have implemented a swine summer AI Certification & Internship Program for Students and Limited-resource Producers. The internship program complements the swine PBL curriculum and practicum by providing further occupational learning experiences. Preliminary studies are underway to find out if Njansang (*Ricinodendron heudelottii*) a tropical plant with highly nutritional oil seed containing essential fatty acids and high levels of crude protein had the potential to alter the lipid and other metabolite levels in the pig as well as shift the body composition toward improved pork quality traits and repartition fat and protein deposition in finishing hogs. Studies are being conducted that will lead to the development of a Pasture Based Swine Management System (PBSM) for Limited Resources Farmers. PBSM is an alternative approach for rearing swine outdoors using pasture as a major source of nutrients, particularly for gestating sows or finishing pigs. Our outreach programs are highly effective and relevant, driven by a clear strategy, with stakeholders identified and often participating in the application of the technology or measurement techniques as soon as they are developed. The Program attracted more than \$500,000 in funding from different subdivisions of the USDA, State of Mississippi and other funding agencies. As a result of the influx of research dollars, capacity has been built or enhanced, and major strides have been made and specific projects were designed, executed and results incorporated into a package of recommendations for regional limited-resource pork producers

## 2. Brief description of the target audience

The target audiences are limited-resource farmers and producers, extension educators, and rural dwellers within the State of Mississippi. The ultimate targeted audience is customers/consumers of livestock and poultry products throughout the State of Mississippi and the nation.

## V(E). Planned Program (Outputs)

### 1. Standard output measures

#### Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	600	500	100	100
2007	700	542	140	200

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

#### Patent Applications Submitted

Year	Target
Plan:	0
2007 :	1

#### Patents listed

**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>			
2007	0	1	1

**V(F). State Defined Outputs****Output Target**

**Output #1****Output Measure**

- Conduct educational tours for Limited Resource farm families and youth in communities

Year	Target	Actual
2007	6	6

**Output #2****Output Measure**

- Conduct educational demonstration for Limited Resource farm families and youth in communities

Year	Target	Actual
2007	6	1

**Output #3****Output Measure**

- Conduct educational workshop for limited Resource farm families and youth in communities

Year	Target	Actual
2007	24	24

**Output #4****Output Measure**

- Number of educational seminars for Limited Resource farm families and youth in communities on Reproduction Performance, nutrient utilization in animals,

Year	Target	Actual
2007	12	12

**Output #5****Output Measure**

- Conduct educational field days and other educational activities for Limited Resource farm families and youth in communities

Year	Target	Actual
2007	1	0

**Output #6****Output Measure**

- Conduct educational activities for Limited Resource farm families and youth in communities

Year	Target	Actual
2007	20	0

**Output #7****Output Measure**

- Conduct educational training on animal production to limited resources farm families

Year	Target	Actual
2007	1	0

**Output #8****Output Measure**

- Develop an educational facts sheets on animal production to limited resources farm families

Year	Target	Actual
2007	5	0

**Output #9****Output Measure**

- Number of Research Publications published in the field of animal sciences/ meat production

Year	Target	Actual
2007	1	3

**Output #10****Output Measure**

- Number of research based reader-friendly pamphlets and leaflets developed by extension educators for farmers and farm families

Year	Target	Actual
2007	6	0

**Output #11****Output Measure**

- Develop an educational thesis for Limited Resource farm families and youth in communities

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	4	0

**Output #12****Output Measure**

- Conduct educational field days and other educational activities for Limited Resource farm families and youth in communities

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	1	0

**Output #13****Output Measure**

- Develop M.S. thesis on alternative production systems for meat animals

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	0	0

**Output #14****Output Measure**

- Conduct educational activities for Limited Resource farm families and youth in communities on alternative production systems for meat animals

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	20	0

**Output #15****Output Measure**

- Conduct educational training on animal production to Limited Resource farm families

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	1	1

**Output #16****Output Measure**

- Develop and educational fact sheets on animal production to Limited Resource farm families on alternative production systems for meat animals

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	5	0

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

<b>O No.</b>	<b>OUTCOME NAME</b>
1	Number of participants to gain knowledge on production-management practices techniques
2	Number of participants improved breeding stock to maintain quality; sustainability, and profitability
3	Number of participants improving production efficiency through adoption of best management practices
4	Number of program participants to gain knowledge on breeding stock selection, reproductive performance
5	Number of producers, documented to have modified existing practices or technologies
6	Number of producers or adopted new production management practices and technologies
7	Number of producers documented to have assessed potential environmental impacts of their operations and developed and acted on plans to eliminate or minimize those concerns
8	Number of producers documented to have developed and implemented herd health management plans or modified existing plans to improve production
9	Number of producers documented to have improved economic returns to agricultural profitability and vitality resulting from enhanced production management practices
10	Number of producers documented to meet or exceed current environmental protection standards as a result of participating in relevant educational programs

**Outcome #1****1. Outcome Measures**

Number of participants to gain knowledge on production-management practices techniques

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	620

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Due to the lack of resources/knowledge small producers often don't follow best management practices which lead to a decrease in production.

One way to ignite the production of pasture-raised pork among limited-resource farmers in southwest Mississippi is to provide information to these farmers on product quality traits and the existence of market for pasture-raised pork products in the tri-state area.

**What has been done**

620 producers were educated on best management practices for improved production efficiency through 6 workshops on production management practices , 1 demonstration on management practices and 2 seminars on management practices.

Because of our studies, a potential exists in the pig industry to use purslane to produce novel pork and pork products and to lower the incidence of cardiovascular disease risk in pork consumers.

**Results**

Through evaluation of (pre-post) test and observation by extension educators and animal science specials 80% of producers felt that they gained additional knowledge of management practices

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
308	Improved Animal Products (Growth & Development)
302	Nutrient Utilization in Animals

**Outcome #2****1. Outcome Measures**

Number of participants improved breeding stock to maintain quality; sustainability, and profitability

**2. Associated Institution Types**

- 1890 Research



**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Pasture hog producers can develop niche markets for their pork by emphasizing the animal welfare benefits or environmental friendly aspects of their systems.

**What has been done**

Studies are being conducted that will lead to the development of a Pasture Based Swine Management System (PBSM) for Limited Resources Farmers. PBSM is an alternative approach for rearing swine outdoors using pasture as a major source of nutrients, particularly for gestating sows or finishing pigs.

**Results**

The research is in its first year of study. Survey instruments have been developed for assessing whether or not consumers would prefer pasture-raised hogs to the traditional barn-produced hogs or pay higher prices for them. This study would be followed by a survey of swine producers to determine their readiness to adopt pasture based swine management system. The two surveys will assist our program in developing research investigations geared at developing pasture pork production for Mississippi limited swine producers.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
308	Improved Animal Products (Growth & Development)
303	Genetic Improvement of Animals/ Emphasis on Meat Quality

**Outcome #3****1. Outcome Measures**

Number of participants improving production efficiency through adoption of best management practices

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	691

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Production practices are often not followed for various reasons such as lack of resources and lack of information to be successful.

**What has been done**

Six Hundred Ninety-one (691) producers and potential producers were educated on best management practices as well as nutrient management.

**Results**

Producers used some best management practices that have increased the quality of animals raised and has seen a small increase in profits earned.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
308	Improved Animal Products (Growth & Development)

### Outcome #4

#### 1. Outcome Measures

Number of program participants to gain knowledge on breeding stock selection, reproductive performance

#### 2. Associated Institution Types

- 1890 Extension
- 1890 Research

#### 3a. Outcome Type:

Change in Knowledge Outcome Measure

#### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2007	600	736

#### 3c. Qualitative Outcome or Impact Statement

##### Issue (Who cares and Why)

Poor reproductive performance has been a major problem among small limited resource producers and has caused poor breeding stock that lack the quality of meat producing animals for market.

##### What has been done

Seven Hundred Thirty-six (736) producers and potential producers have received educational programming on breeding and reproduction management through five workshops and three seminars on care of animals during calving season.

##### Results

Producers indicated that they are interested in applying these techniques to there operation.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
308	Improved Animal Products (Growth & Development)
301	Reproductive Performance of Animals

### Outcome #5

#### 1. Outcome Measures

Number of producers, documented to have modified existing practices or technologies

#### 2. Associated Institution Types

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	230

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Producers often are reluctant to apply new technology that will improve their operation because they are accustomed to and feel more comfortable in doing and using practices they have used over the years.

**What has been done**

Over 230 producers received educational programming on best management practices in which six workshops, one tour, and two seminars were given on improving existing practices.

**Results**

Through evaluation and observation by extension personnel, 20% of producers have adopted new practices that will improve production.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
301	Reproductive Performance of Animals
308	Improved Animal Products (Growth & Development)

**Outcome #6****1. Outcome Measures**

Number of producers or adopted new production management practices and technologies

**2. Associated Institution Types**

•1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	161

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Quality and consistency are two of the most important factors contributing to consumer satisfaction with pork and pork products.

**What has been done**

Preliminary studies are underway to find out if Njansang (*Ricinodendron heudelottii*), a tropical plant with highly nutritional oil seed containing essential fatty acids and high levels of crude protein, has the potential to alter the lipid and other metabolite levels in the pig as well as shift the body composition toward improved pork quality traits and repartition fat and protein deposition in finishing hogs.

**Results**

A preliminary study of *Ricinodendron heudelottii* fruit seeds, an indigenous fruit tree species found in West and Central Africa, revealed a unique nutritional characteristic. Polyunsaturated fat content of the seed was 73.7% of total fat content, with 12.8% made up of monounsaturated fat; of the total fatty acid content, eicosapentaenoic acid (EPA) was 48.6% of the fatty acids in the seed. Growth and carcass traits of finishing hogs supplemented with this novel oil seed showed that back fat depth was significantly ( $P < .05$ ) reduced in hogs consuming supplemented diet. Kidney weight of pigs fed supplements of the diet was highly elevated ( $P < .01$ ) as compared to the controls. More studies are needed to establish the functional benefits of the oil seeds in human health.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
308	Improved Animal Products (Growth & Development)
302	Nutrient Utilization in Animals

### Outcome #7

#### 1. Outcome Measures

Number of producers documented to have assessed potential environmental impacts of their operations and developed and acted on plans to eliminate or minimize those concerns

#### 2. Associated Institution Types

•1890 Extension

#### 3a. Outcome Type:

Change in Action Outcome Measure

#### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2007	120	28

#### 3c. Qualitative Outcome or Impact Statement

##### Issue (Who cares and Why)

Often times producers don't have environmental plans in place to sustain their operations and are not aware of issues that may affect their farms.

##### What has been done

Educational programs have been provided to small producers on conservation issues that can be implemented to have an immediate impact to their operation.

##### Results

Through evaluations it was discovered that producers were beginning to develop action plans that will increase the sustainability of small family farms.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
311	Animal Diseases
305	Animal Physiological Processes
302	Nutrient Utilization in Animals

### Outcome #8

#### 1. Outcome Measures

Number of producers documented to have developed and implemented herd health management plans or modified existing plans to improve production

#### 2. Associated Institution Types

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	28

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Small limited resource producers have maintained little or no herd health plans to ensure healthy productive animals for breeding and marketing opportunities.

**What has been done**

Producers have been provided educational programs that focused on improving herd health as well as preventive methods for healthy herds.

**Results**

Through general observation of extension personnel and evaluation of producer farms, there has been improvement of the overall health of farm animals among local clientele.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
311	Animal Diseases
305	Animal Physiological Processes
302	Nutrient Utilization in Animals

**Outcome #9****1. Outcome Measures**

Number of producers documented to have improved economic returns to agricultural profitability and vitality resulting from enhanced production management practices

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	42

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Producers have often received poor returns from marketing efforts because of poor quality breeding stock and the lack of management needed to be productive.

**What has been done**

Four educational programs, two demonstrations, one tour, and three seminars have been provided to address issues such as breeding and reproductive management, genetic improvement, nutrient utilization, and herd health programs to increase profits for producers.

**Results**

Through evaluation producers have had a 10% increase in profits by knowledge gained and practices implemented in order to realize the importance of new emerging technologies.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
303	Genetic Improvement of Animals/ Emphasis on Meat Quality
308	Improved Animal Products (Growth & Development)

**Outcome #10****1. Outcome Measures**

Number of producers documented to meet or exceed current environmental protection standards as a result of participating in relevant educational programs

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	60	24

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Environmental and conservation issues have not been practiced among small producers due to the lack of knowledge and methods on ways to sustain and preserve the land over generations.

**What has been done**

Producers have been provided four educational programs, one tour, and one seminar that focus on conservation of land and the importance of putting sustainable practices into action that will preserve land for future production.

**Results**

Producers are beginning to use conservation practices and understand the importance of preserving the land for future generations.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
308	Improved Animal Products (Growth & Development)
303	Genetic Improvement of Animals/ Emphasis on Meat Quality

**V(H). Planned Program (External Factors)****External factors which affected outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Appropriations changes
- Government Regulations
- Competing Public priorities

**Brief Explanation**

The research and production team at the Swine Development Center has downsized significantly over the past 5 years. The Center is barely able to meet the basic production, teaching, and outreach needs in all areas of swine production and management. The combination of staff, and budget reductions, and aging facility has made it difficult to maintain the Church Hill Swine Farm to the swine industry standards. Unless increased, the operating budget is likely to affect the Center's ability to maintain the knowledge base and expertise of its highly experienced staff, its ability to attract new staff in order to replace losses in existing areas, and its ability to initiate new activities that are needed to support the land grant mission of the university. Any further reduction in faculty/staff expertise would greatly impact the quality of research and technology transfer programs and students will lack the breadth of knowledge needed to be competitive in the job market. No budget has been appropriated for the repair and maintenance of the Feed Mill. Finding dollars for equipment repair and/or maintenance remains a challenge.

#### **V(I). Planned Program (Evaluation Studies and Data Collection)**

##### **1. Evaluation Studies Planned**

- Retrospective (post program)
- Before-After (before and after program)
- During (during program)

##### **Evaluation Results**

Research will continue to be evaluated according to its relevance to southwest Mississippi and the nation. Research staff's productivity will be measured by publication in scientific and popular literature and other means of communicating results as well as the amount of external funding. Interdisciplinary research will be encouraged. We will continue to bring together expertise to address the broad based issues that face the pork industry. Technology transfer programs will continue to be evaluated by participants in the Extension Program. An evaluation form will be used to assess program effectiveness. Input will also be solicited from Extension Educators and Advisory Committees. Evaluation (pre post test) indicated that knowledge gained through these efforts increased management practices and the adoption of sustainable practices which has helped farmers improve farming practices and methods used in production.

##### **Key Items of Evaluation**

**Program #4****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Sustainable Horticulture Production Systems

**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		20%		20%
205	Plant Management Systems		20%		20%
211	Insects, Mites, and Other Arthropods Affecting Plants		20%		20%
213	Weeds Affecting Plants		20%		20%
501	New and Improved Food Processing Technologies		20%		20%
<b>Total</b>			100%		100%

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	13.0	0.0	11.4
<b>Actual</b>	0.0	13.0	0.0	11.4

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

Extension		Research	
<b>Smith-Lever 3b &amp; 3c</b>	<b>1890 Extension</b>	<b>Hatch</b>	<b>Evans-Allen</b>
0	447819	0	755494
<b>1862 Matching</b>	<b>1890 Matching</b>	<b>1862 Matching</b>	<b>1890 Matching</b>
0	447819	0	755494
<b>1862 All Other</b>	<b>1890 All Other</b>	<b>1862 All Other</b>	<b>1890 All Other</b>
0	0	0	0

**V(D). Planned Program (Activity)****1. Brief description of the Activity**



The goal of this program is to enhance the income potential and quality of life of Mississippi limited resource farmers by growing alternative crops through sustainable production practices. Therefore, a series of research and demonstration studies on alternative crops, especially small fruits and vegetables were conducted at the Alcorn State University research and demonstration centers. These efforts have afforded the opportunities to conduct educational programs, events and activities for limited resource farmers. Hence, about 1,200 farmers were educated on soil, water and nutrient management, pesticide application methods, pest and disease control measures and value added product developments. On farm demonstrations, field days, seminars and workshops were some of the methods that were used to educate farmers on the above mentioned topics. The results of the programs conducted were encouraging. Evaluations (Before After) indicated that the participants' awareness and knowledge levels related to one or more content concepts were increased. In addition to increased learning concepts reported, adoption of sustainable farming practices as a result of Extension programming, enabled farmers to improve their farming method. Research activities have led to several publications such as: 1) Sweetpotato yield and quality as influenced by cropping systems; 2) Lemongrass production in southwest Mississippi; 3) Basics inorganic vegetable production; 4) Handy guide to hot pepper cultivation and utilization; 5) Composting made easy; 6) Shiitake mushroom production; 7) Yield response of cucumber varieties to different mulching in an organic production system; 8) The organic seed partnership; 9) Breeding for and in organically managed systems; 10) Plant density effect of organic eggplant on yield, biomass development, and soil loss prediction; 11) Effect of animal and forest waste on biomass development; 12) Fruit quality of blueberry; and 13) Residue decomposition studies on horticultural crops for nutrient management and water quality.

#### Publications:

1. Igbokwe, Patrick E. and Stephen Asumeng. 2007. Lemongrass *Cymbopogon citratus* Production in Southwest Mississippi. *Journal of Herbs, Spices & Medicinal Plants*. Vol. 13(2).
  2. Igbokwe, Patrick, Liang Huam, and Wesley Whittaker. 2006. A Handy Guide To Hot Pepper Cultivation and Utilization. Alcorn Experiment Station Bulletin 2006-1.
  3. Igbokwe, Patrick E., Magid Dagher, Joe Buzardt, Franklin Chukwuma and Arkon Burks. 2007. Shiitake Mushroom Production. Alcorn Experiment Station Bulletin 2007-4.
  4. Igbokwe, Patrick E, Franklin Chukwuma and Arkon Burks. Composting Made Easy. 2007. Alcorn Experiment Station Bulletin 2007-2.
- Igbokwe, Patrick, Ezekwe, M, Besong S, and Ezekwe E. Insect Control In Common Purslane. Alcorn Research Report Vol 1, No. 1 May 2007.
- Igbokwe, Patrick, Huam, L., Dagher, M., Alipoe, D., and Chukwuma, F. Nutsedge Control In Field-Grown Feverfew In Southwest Mississippi. 2007. *Journal of the Mississippi Academy of Sciences* 52(2-3):163-171.
- Panicker, G.K., J. Spiers, A.H. Alhumadi, C.A. Sims, J.L. Silva, and F.B. Matta. 2007. Effect of Worm Castings, Cow Manure, and Forest Waste on Yield and Fruit Quality of Organic Blueberry Raised on a Heavy Soil. *Acta Horticulturae* (in press).
- Weiss, C.A., Jr., D. Ringelberg, P. Malone, and G.K. Panicker. 2007. Composting Animal Waste with Magnesium: A Novel Method of Stabilizing Nitrogen and Phosphorus. *The Journal of Solid Waste Technology and Management* (in press).
- Weiss, C.A., D. Ringelberg, O. Malone, and G.K. Panicker. 2007. Composting animal waste with magnesium: A novel method of stabilizing nitrogen and phosphorus. Presented at the Twenty-Second International Conference and published in the *Solid Waste Technology and management*, March 18-21, 2007. Philadelphia, PA. Preceedings (In press).

Sixto Marquez, Girish K. Panicker, Om P. Vadhwa, and Patrick Igbokwe. 2007. Plant Density Effect on Yield and Biomass development of Organic Eggplant (*Solanum melongena* L.). Journal of Mississippi Academy of Sciences. Vol. 52(1). p.32

Weiss, C.A., Jr., D. Ringelberg, P. Malone, and G.K. Panicker. 2006. Composting nitrogenous waste with magnesium to produce artificial guano. Presented at Orbit 2006, and published in the proceedings of the Biological Waste Management. Sept. 13-15, Weimar, Germany.

G.K. Panicker, J. Spiers, A.H. Alhumadi, C.A. Sims, J.L. Silva, and F.B. Matta. 2007. Effect of Animal and Forest Waste on Biomass Development and Fruit Quality of Blueberry. Abstract edition of the 27th International Horticultural Congress, Seoul, South Korea.

## 2. Brief description of the target audience

This program will be designed specifically for the limited-resource farmers, extension educators, 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.

## V(E). Planned Program (Outputs)

### 1. Standard output measures

**Target for the number of persons (contacts) reached through direct and indirect contact methods**

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	650	600	120	500
2007	1055	2500	120	500

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

#### Patent Applications Submitted

Year      Target

Plan:     0

2007 :    0

#### Patents listed

### 3. Publications (Standard General Output Measure)

#### Number of Peer Reviewed Publications

	Extension	Research	Total
Plan			
2007	0	4	4

## V(F). State Defined Outputs

### Output Target

**Output #1****Output Measure**

- Numbers of Papers and Publications developed by Research

Year	Target	Actual
2007	3	5

**Output #2****Output Measure**

- Conduct educational seminars for Limited Resource farm families and youth in communities on Soil, Plant, Water, Nutrient Relationships

Year	Target	Actual
2007	50	44

**Output #3****Output Measure**

- Conduct educational workshop for limited Resource farm families and youth in communities

Year	Target	Actual
2007	50	40

**Output #4****Output Measure**

- Conduct educational field days for Limited Resource farm families and youth in communities

Year	Target	Actual
2007	4	3

**Output #5****Output Measure**

- Conduct educational tours for Limited Resource farm families and youth in communities

Year	Target	Actual
2007	15	12

**Output #6****Output Measure**

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

Year	Target	Actual
2007	1	1

**Output #7****Output Measure**

- Develop and educational facts sheets on horticulture production to limited resources farm families

Year	Target	Actual
2007	5	5

**Output #8****Output Measure**

- Number of Research Projects

Year	Target	Actual
2007	2	4

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

<b>O No.</b>	<b>OUTCOME NAME</b>
1	Number of program participants for requirements of environmental regulations and programs
2	Number of program participants for opportunities of environmental regulations and programs
3	Number of program participants in integrated nutrient management for sustainable agriculture production and environmental protection
4	Number of program participants in integrated pest management for sustainable agriculture production and environmental protection
5	Number of program participants in waste management for sustainable agriculture production and environmental protection
6	Number of program participants in recycling methods for sustainable agricultural production and environmental protection
7	Number of producers to have adopted new production management practices and technologies
8	Number of producers assessed potential environmental impacts of their operations and management decisions
9	Number of producers responded to environmental and market variations through alternative crop or management strategies
10	Number of producers documented best management practices in their recommendations
11	Number of producers documented to have assessed potential environmental impacts of their operations
12	Number of producers who have incorporated best management practices bases on the recommendations
13	Number of producers that will have responded to environmental and market variations through alternative crop or management strategies
14	The number of producers documented to meet or exceed current environmental protection standards as a result of participating in relevant educational programs
15	The number of producers reported reduced environmental concerns for participating enterprises
16	Number of participants that will gain knowledge on new production-management practices, techniques will gradually increase
17	Some increase in the number of participants and improved product handling will be expected
18	Number of participants making crop choices for sustainability and profitability
19	Number of program participants to improve production efficiency through best management practices
20	Number of program participants for environmental impacts of their operations

**Outcome #1****1. Outcome Measures**

Number of program participants for requirements of environmental regulations and programs

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Obstacles facing limited-resource farmers in adopting environmental and sustainable agriculture programs.

**What has been done**

Workshops on environmentally friendly agricultural and management practices were delivered to the farmers

**Results**

Farmers reported an increased awareness in adopting environmentally friendly practices and good management techniques.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
205	Plant Management Systems

**Outcome #2****1. Outcome Measures**

Number of program participants for opportunities of environmental regulations and programs

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently no activities reported

**What has been done**

Currently no activities reported

**Results**

Currently no activities reported

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
102	Soil, Plant, Water, Nutrient Relationships

**Outcome #3****1. Outcome Measures**

Number of program participants in integrated nutrient management for sustainable agriculture production and environmental protection

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	600	312

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Overuse of nitrogen fertilizer is a common problem among limited -resource farmers. It is often applied at the expense of other nutrients.

**What has been done**

Five workshops were conducted to educate farmers on the importance of soil testing and fertilizer application methods. A total of 312 farmers attended the workshops.

**Results**

The majority of farmers (90%) indicated their willingness to conduct soil test before planting and also apply fertilizer according to soil test results.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
205	Plant Management Systems
102	Soil, Plant, Water, Nutrient Relationships

**Outcome #4****1. Outcome Measures**

Number of program participants in integrated pest management for sustainable agriculture production and environmental protection

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	600	275

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Utilizing a variety of control methods, IPM reduces the likelihood of pests adapting to one particular strategy

**What has been done**

Workshops were conducted for limited resource farmers on successful IPM strategies and programs to effectively limit pest to acceptable levels. Two hundred and seventy (270) farmers attended six workshops conducted on IPM strategies to effectively control pest to acceptable levels.

**Results**

All the farmers who attended indicated their willingness to utilize this method of pest control to monitor and control pest in their fields.

**4. Associated Knowledge Areas**

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

**Outcome #5****1. Outcome Measures**

Number of program participants in waste management for sustainable agriculture production and environmental protection

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	200

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Ground water pollution due to excessive nitrogen and phosphorous fertilization.

**What has been done**

Two hundred (200) farmers attended four workshops on adequate and responsible use of fertilizer, type, time and quantity of application.

**Results**

Evaluation of the participants indicated that 80% of farmers who attended the workshops indicated their willingness to adopt sustainable nutrient application methods.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
205	Plant Management Systems

**Outcome #6****1. Outcome Measures**

Number of program participants in recycling methods for sustainable agricultural production and environmental protection

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	200

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Disposal of pesticide and other farm materials such as oil and fertilizer bags are common environmental problems for limited resource farmers.

**What has been done**

Two hundred farmers attended 3 workshops and 2 seminars on proper pesticide disposal methods including recycling of waste materials.

**Results**

Ninety percent (90%) of the farmers reported knowledge and the need of adopting and recycling farm waste and proper disposal of farm materials.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
213	Weeds Affecting Plants
205	Plant Management Systems

**Outcome #7****1. Outcome Measures**

Number of producers to have adopted new production management practices and technologies

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	100

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Lack of information from agricultural agents hinders the adoption of new technology

**What has been done**

Two on-farm demonstrations were used educate one hundred farmers on cropping systems.

**Results**

Pre and post evaluation indicate that 90% of the farmers increased knowledge on adopting modern farm technology (crop rotation, cover cropping and other nutrient management issues.)



**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
205	Plant Management Systems

**Outcome #8****1. Outcome Measures**

Number of producers assessed potential environmental impacts of their operations and management decisions

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	120	150

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Lack of information regarding nutrient as pollutant of river and lakes.

**What has been done**

One hundred and fifty farmers attended four workshops on environmental impacts regarding nutrient management.

**Results**

Ninety percent (90%) of the farmers reported increased awareness on nutrient regarding their impact on pollution of lakes, rivers and estuarine.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
205	Plant Management Systems

**Outcome #9****1. Outcome Measures**

Number of producers responded to environmental and market variations through alternative crop or management strategies

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	120	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently no activities reported

**What has been done**

Currently no activities reported

**Results**

Currently no activities reported

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
205	Plant Management Systems

**Outcome #10****1. Outcome Measures**

Number of producers documented best management practices in their recommendations

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
205	Plant Management Systems

**Outcome #11****1. Outcome Measures**

Number of producers documented to have assessed potential environmental impacts of their operations

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
205	Plant Management Systems

**Outcome #12****1. Outcome Measures**

Number of producers who have incorporated best management practices  
bases on the recommendations

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	75

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Decline in crop production due to poor management strategies

**What has been done**

Workshops were conducted on cultural practices such as crop rotation, conservation tillage and nutrient management.

Seventy five (75) farmers attended three (3) workshops on cultural practices such as crop rotation, conservation tillage and nutrient management.

**Results**

Majority (90%) of the participants indicated that will adopt best management techniques on their farms

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
205	Plant Management Systems

**Outcome #13****1. Outcome Measures**

Number of producers that will have responded to environmental and market variations through alternative crop or management strategies

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	120	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently no activities reported

**What has been done**

Currently no activities reported

**Results**

Currently no activities reported

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
501	New and Improved Food Processing Technologies

**Outcome #14****1. Outcome Measures**

The number of producers documented to meet or exceed current environmental protection standards as a result of participating in relevant educational programs

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	70

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Poor environmental concern due to lack of research-based information on environmental protection standards.

**What has been done**

Seventy (70) farmers attended two workshops and one seminar on environmental protection standard and concerns regarding crop production.

**Results**

Over 80% of the participants reported gaining knowledge of regulations and standard environmental protection standards regarding their farm operations.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
205	Plant Management Systems
102	Soil, Plant, Water, Nutrient Relationships

**Outcome #15****1. Outcome Measures**

The number of producers reported reduced environmental concerns for participating enterprises

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	60	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
205	Plant Management Systems

**Outcome #16****1. Outcome Measures**

Number of participants that will gain knowledge on new production-management practices, techniques will gradually increase

**2. Associated Institution Types**

•1890 Extension  
•1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	320

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Due to high capital investment and large acreage associated with most conventional agriculture there is a decline in the number of limited-resource farmers .

**What has been done**

Three Hundred Twenty (320) farmers were educated on better production and management practices through five demonstrations and two workshops.

**Results**

Through before and after evaluation method (pre and post ) 90% of the farmers reported increase in knowledge regarding production and management practices that will help them in their farming operations.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
205	Plant Management Systems

**Outcome #17****1. Outcome Measures**

Some increase in the number of participants and improved product handling will be expected

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	200

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Due to poor quality, produce farmers are in need of post harvest handling and proper management/sanitation techniques.

**What has been done**

About 200 farmers attended 3 workshops and demonstration conducted on proper harvest handling techniques, sanitation and cooling methods.

**Results**

Results of the pre and post test conducted indicated that about 85% of the participants received increased awareness and knowledge of proper produce handling, hygiene and sanitation methods.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
501	New and Improved Food Processing Technologies

**Outcome #18****1. Outcome Measures**

Number of participants making crop choices for sustainability and profitability

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	600	350

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Farmers commonly report a lack of accessible information on crop production practices, fertilizer usage, disease control measures, and other agronomic practices.

**What has been done**

Information on alternative agricultural enterprises was delivered to 350 farmers through five workshops, two seminars, and two field days.

**Results**

About 75% of the farmers that attended the educational programs and events reported increased awareness and knowledge of information regarding sustainable production and management practices.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
501	New and Improved Food Processing Technologies

**Outcome #19****1. Outcome Measures**

Number of program participants to improve production efficiency through best management practices

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	600	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

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

**Outcome #20****1. Outcome Measures**

Number of program participants for environmental impacts of their operations

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	600	250

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Limited-resource farmers are faced with erosion problems, low organic matter and loss of top soil due to constant tillage of their soil.

**What has been done**

250 farmers attended 6 workshops on sustainable agriculture practices on how to improve soil structure, increase organic matter, control weed and disease.

**Results**

Pre and post test evaluation indicated that about 80% of the participants were williness to adopt this technology.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
102	Soil, Plant, Water, Nutrient Relationships
205	Plant Management Systems

**V(H). Planned Program (External Factors)****External factors which affected outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Public Policy changes
- Populations changes (immigration, new cultural groupings, etc.)
- Other (staff retention)

**Brief Explanation**



Organization restructuring, personnel reassignments, staff retention, and retirement of some key staff members resulted in shortfall in the achievement of some of the outcomes. However, efforts have been made to accomplish the outcomes in futures reporting years.

## **V(l). Planned Program (Evaluation Studies and Data Collection)**

### **1. Evaluation Studies Planned**

- Before-After (before and after program)
- Case Study
- Comparison between locales where the program operates and sites without program intervention

### **Evaluation Results**

Results of the programs conducted were encouraging. Evaluations (Before After) indicated that the awareness and knowledge levels related to one or more content concepts of participants were increased. In addition to increased learning concepts reported, adoption of sustainable farming practices as a result of extension programming enabled farmers to improve their farming method.

### **Key Items of Evaluation**

**Program #5****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Community Resource Planning &amp; Economic Development

**V(B). Program Knowledge Area(s)****1. Program Knowledge Areas and Percentage**

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
608	Community Resource Planning and Development		50%		50%
609	Economic Theory and Methods		30%		30%
805	Community Institutions, Health, and Social Services		20%		20%
	<b>Total</b>		100%		100%

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	5.0	0.0	3.4
<b>Actual</b>	0.0	4.0	0.0	3.4

**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	137790	0	225323
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	137790	0	225323
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 goal of the program is to empower and improve the quality life of people to promote sustainable social and economic development in communities by utilizing research findings and best community and economic development practices as models. The ASUEP Community Resource Planning & Economic Development Program focuses on community economic planning and development. This planned program are collaborate with governmental officials and local school districts to plan and implement sustainable social, community and economic development that will likely create jobs, improve employment opportunities through small and home based businesses, enhance human capital development in all forms. The planned program conducted educational sessions and disseminate information through workshops, seminars, lectures, training sessions, leadership development planning, demonstrations, asset mapping and other activities within communities. These were geared toward building human capital and effectively empowering people to become the main asset of community and economic development.

The educational programs and activities were implemented to address issues in the following areas: Leadership Development, Land Stewardship and Management, Assets Mapping and Job Fairs & Mentoring Activities on Economic Development. Through these planned programs, events and activities were able to provide over 3600 adults and the opportunity to enhance their knowledge of community resource planning & economic development and the potential to increase and encourage active participation in social and economic development.

In an effort to achieve the goal various workshops & activities conducted in the community and obtained positive results. The Community Voices Leadership Development training implemented in Claiborne County, 20 leaders from three communities (Pine Grove, Gordon Station, and Russum) successfully completed the leadership development program. Since the initial training, Claiborne County now has 20 trained and emerging leaders involved in various leadership roles to tackle current issues. The emerging leaders are working on their action plans and they continue to meet on a regular basis to address community issues. The other major impact achieved in this program was in Job Shadowing Program. The Job Shadowing Program benefited over 178 students in Hinds County. The students gained knowledge from the learning activities by reflecting on what they learn and how it might affect their plans for the future. Positive feedback was given by teachers and students, when asked the question - Did you learn anything from this Job Shadowing program? Certifications of Appreciation were also given to all students for participating in this program. The Junior League Organization Job Shadowing materials were utilized.

## 2. Brief description of the target audience

- Limited Resource Audiences Families.
- Community-Based Organizations..
- Entrepreneur.
- Elected and appointed Political Officials

## V(E). Planned Program (Outputs)

### 1. Standard output measures

#### Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	3500	5000	150	250
2007	4112	2497	150	250

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

#### Patent Applications Submitted

Year      Target  
Plan:    0

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2007 : 0**Patents listed****3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>			
2007	0	0	0

**V(F). State Defined Outputs****Output Target**

**Output #1****Output Measure**

- Utilizing educational Program curriculums, conduct trainings on leadership development, cooperative development, asset mapping and the development of home-Based Business opportunities for limited resource clientele

Year	Target	Actual
2007	23	51

**Output #2****Output Measure**

- Conduct educational job fairs on economic development and small business development

Year	Target	Actual
2007	6	4

**Output #3****Output Measure**

- Interpretation of results, presentation of preliminary results and drafting of bulletins and other materials for local community use

Year	Target	Actual
2007	2	0

**Output #4****Output Measure**

- Conduct specific event activities (Ground Hog Day County Day Mentioning events)

Year	Target	Actual
2007	33	44

**Output #5****Output Measure**

- Conduct educational demonstration on Agro-tourism, Land Stewardship and management for Limited Resource Audiences

Year	Target	Actual
2007	12	4

**Output #6****Output Measure**

- Conduct educational tours on Agro-tourism, Land Stewardship and management for Limited Resource Audiences

Year	Target	Actual
2007	2	3

**Output #7****Output Measure**

- Conduct social- psychological and economic and impact surveys and develop profiles of communities and their economic landscape. Coding and analysis of data Number of Surveys

Year	Target	Actual
2007	1	1

**Output #8****Output Measure**

- Drafting of manuscripts and documentation of findings and disseminate said findings and modes for further improvement of communities and empowerment of residents Number of Special Reports, News Letters and Fact sheets

Year	Target	Actual
2007	10	5

**Output #9****Output Measure**

- Dissemination of findings to stakeholders in respective communities and presentation of refereed articles ;Target Research Finding Publications

Year	Target	Actual
2007	2	2

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

O No.	OUTCOME NAME
1	Percentage of ( target contacts) community leaders gaining leadership and empowerment skills on how to involve citizens in civic activities
2	Percentage of (target contacts) the local citizens improving their human capital and gaining new skills to increase their capacity to be gainfully employed and contribute positively to the overall wellness of the communities
3	Percentage of ( target contacts) community residents utilizing economic development knowledge and learned skills to retain and attract businesses and other economic development projects
4	Increase new business ownership by five (5) to ten (10) percent in targeted counties
5	Lower the underemployment rate by two (2) percent and increase the employment rate by two (2) to four (4) percent
6	Increase in the percentage of infrastructures that will promote social and economic well-being
7	Increase the percentage of infrastructure and identify avenues by which their impact can be measured
8	Increase the percentage of ( target contacts) communities conducting local festivals and other events and its citizen's participation

**Outcome #1****1. Outcome Measures**

Percentage of ( target contacts) community leaders gaining leadership and empowerment skills on how to involve citizens in civic activities

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Walthall County, located in the southwestern portion of the state of Mississippi which has a population of over fifteen thousands (15,000). The current unemployment rate is moderate (6.6%) when compared to other counties within the region. Yet, one of its manufacturing companies has been considering relocating because of poor landlord ship on the part of the county's board of supervisor. At least forty (40) employees stand to lose meaningful employment if the company closed.

**What has been done**

Through the training of the Alcorn State Extension's Community Voices Program, local citizens (Mt. Mariah Community Organization) were given problem solving methods that could be applied to address the problem of possible loss of jobs. Local citizens were taught to identify problems, research and apply problem solving techniques. Additionally, they were taught to identify the strengths within their group or organization and to recognize the power of a group as well as the importance of networking.

**Results**

The Mt. Mariah Community Organization will appeal to their local board of supervisors concerning repair the roof on the building which the local manufacturing is leasing from the county. The organization has a member who is employed with the manufacturing company who will act as the official spokesperson for the group. A petition will be circulated and submitted to the board of supervisors concerning the possible job loss if needed repairs are not made. Additional support has been added by the networking of the Mt. Mariah Organization with other clubs and organizations that they are affiliated with. This accomplishment and/or success story earned this title because a community of people, who initially felt powerless, now has been introduced to avenues that will allow them to take meaningful steps to resolve a community based problem. People who entered the Voices Program thinking that the local government would not listen to their concerns and that they were helpless are now empowered. When a people are empowered, they can change their circumstances, when this occurs lives are changed thus they are in control of their destiny.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
608	Community Resource Planning and Development

**Outcome #2****1. Outcome Measures**

Percentage of (target contacts) the local citizens improving their human capital and gaining new skills to increase their capacity to be gainfully employed and contribute positively to the overall wellness of the communities

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

In 2002, Hinds County unemployment rate was 5.3% has remained relatively high compared to Mississippi at 6.8% of unemployed persons. The Job Shadowing program is a great opportunity for students to learn about the world of work. The Job Shadowing Program is a sponsored program of The Junior League Organization.

**What has been done**

Hinds County students participated in 2 Job shadowing Programs conducted at the Neighborhood Christian Center After School Program ages 6-13 and The Bryman Gertude Ellis Head Start Center ages 4-5. The Job Shadowing program teaches a series of student learning activities that expose students to a wide variety of job experiences and information. The Job Shadowing Program is a sponsored program of The Junior League Organization. Neighborhood Christian Center After School program ages 6-13 students participated in the Job Shadowing Program. A total of 33 students (1WF 15BM 17BF) participated. The programs two hour sessions dealt with student learning activities: (1) Personal Assessment Form- students assessed their own strengths from the survey lists skills and talents that individuals have and employees value, (2) Career Selection Worksheet , - students reviewed broad groups of careers that share common education and skill requirements, (3) Resume, and (4) Personal Action Plan Student Worksheet. Bryman Gertude Ellis Head Start Center ages 4-5 students participated in the Job Shadowing Program. A total of 145 students (73 BM 72 BF) participated. The program two hour sessions dealt with student learning activity: Introductory Questions 'Getting to Know You,'. This activity included presentations from nine mentor speakers (policemen, store manager, cafeteria workers, teacher, umpire, social worker, and extension educator) describing their jobs, responsibilities, goals, a typical day, education, and job training. The students asked questions to the mentoring speakers.

**Results**

As a result of conducting the Job Shadowing Program in Hinds County over 178 students benefited. The students gained knowledge from the learning activities by reflecting on what they learn and how it might affect their plans for the future. Positive feedback was given by teachers and students, when asked the question - Did you learn anything from this Job Shadowing program? Certifications of Appreciation were also given to all students for participating in this program. The Junior League Organization Job Shadowing materials were utilized.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
608	Community Resource Planning and Development

**Outcome #3****1. Outcome Measures**

Percentage of ( target contacts) community residents utilizing economic development knowledge and learned skills to retain and attract businesses and other economic development projects

**2. Associated Institution Types**

- 1890 Extension



**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Alcorn State University Extension program conducted (3) Town Hall Meetings in Hinds, Copiah and Warrens Counties to obtain local citizens input as to addressing the needs of the community/area.

**What has been done**

The Town Hall meetings provided local clients, farmers, business owners and official's information about issues in the area. The input from the local citizens focused on resources to help resolve the problems identified. ASUEP staff collaborated with local grass root organizations to identify priority issues. Sixty individuals participated in the Town Hall Meetings sponsored by Alcorn State University Extension Program.

**Results**

Over 60 local clients, farmers, business owners and officials participated in these meetings. From the Town Hall Meeting data was collected to identify and prioritize issues in Capital Region per year according to the Environmental Scanning system to seek stakeholders input according to POW. Focus groups were formed to address priority issues. At the Focus group meetings, collaborative partnerships and time tables for projects completion in the communities were being formed. Focus groups data several issues were decided as priority for programmatic effects.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
608	Community Resource Planning and Development

**Outcome #4****1. Outcome Measures**

Increase new business ownership by five (5) to ten (10) percent in targeted counties

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	5	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
608	Community Resource Planning and Development

**Outcome #5****1. Outcome Measures**

Lower the underemployment rate by two (2) percent and increase the employment rate by two (2) to four (4) percent

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	2	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
608	Community Resource Planning and Development

**Outcome #6****1. Outcome Measures**

Increase in the percentage of infrastructures that will promote social and economic well-being

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	2	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
609	Economic Theory and Methods
805	Community Institutions, Health, and Social Services

**Outcome #7****1. Outcome Measures**

Increase the percentage of infrastructure and identify avenues by which their impact can be measured

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	5	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
805	Community Institutions, Health, and Social Services
608	Community Resource Planning and Development

**Outcome #8****1. Outcome Measures**

Increase the percentage of ( target contacts) communities conducting local festivals and other events and its citizen's participation

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
608	Community Resource Planning and Development

**V(H). Planned Program (External Factors)****External factors which affected outcomes**

- Natural Disasters (drought,weather extremes,etc.)
- Economy
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Populations changes (immigration,new cultural groupings,etc.)
- Other (Annexation)

**Brief Explanation****V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- After Only (post program)
- Retrospective (post program)
- Before-After (before and after program)
- During (during program)

**Evaluation Results****Key Items of Evaluation**

**Program #6****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Small Family Farm Enterprise Financial Analysis, Management, and 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%		30%
602	Business Management, Finance, and Taxation		40%		40%
604	Marketing and Distribution Practices		30%		30%
	<b>Total</b>		100%		100%

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	9.5	0.0	5.5
<b>Actual</b>	0.0	9.5	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	327252	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	327252	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 Program strive to serve the needs of small limited resource farmers focusing on the Economics of Agricultural Production and Farm Management; Business Management, Finance and Taxation, Marketing and Distribution Practices. The program focus on addressing problems associated with enterprise and market selection, optimal resource allocation in production and risk management. In Marketing and Distribution Practices, the program focus on local, niche and regional markets as well as an understanding of the economic environment, policy, regulatory, and global setting that are constantly changing. The planned program will collaborate with governmental officials and local school districts to plan and implement sustainable social, community and economic development that will likely create jobs, improve employment opportunities through small and homebased businesses and enhance human capital development in all forms.

**2. Brief description of the target audience**

Small farmers; limited resource farmers; family farmers and disadvantaged farmers, low-income rural families.

**V(E). Planned Program (Outputs)****1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

	<b>Direct Contacts Adults</b>	<b>Indirect Contacts Adults</b>	<b>Direct Contacts Youth</b>	<b>Indirect Contacts Youth</b>
<b>Year</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>	<b>Target</b>
<b>Plan</b>	3500	2000	70	100
2007	2390	4000	70	774

**2. Number of Patent Applications Submitted (Standard Research Output)****Patent Applications Submitted****Year      Target****Plan:**    0

2007 :    0

**Patents listed****3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>			
2007	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	Target	Actual
2007	9	24

**Output #2****Output Measure**

- Conduct educational sessions on farm Legal Risk

Year	Target	Actual
2007	9	8

**Output #3****Output Measure**

- Conduct educational Venders Borrowers Training

Year	Target	Actual
2007	9	6

**Output #4****Output Measure**

- Conduct educational Workshop on Farm Management

Year	Target	Actual
2007	18	16

**Output #5****Output Measure**

- Conduct educational demonstration on Farm Management

Year	Target	Actual
2007	12	9

**Output #6****Output Measure**

- Conduct educational tours/ conferences

Year	Target	Actual
2007	4	3

**Output #7****Output Measure**

- Conduct (4) educational curricula trainings/sessions on leadership development cooperative development, asset mapping and the development of home-Based Business opportunities for limited resource clientele

Year	Target	Actual
2007	1	3

**Output #8****Output Measure**

- Conduct educational seminars for limited resource farmers, vendors, and youth in communities on Marketing Distribution of produce and products

Year	Target	Actual
2007	{No Data Entered}	6

**Output #9****Output Measure**

- Conduct educational workshop for limited resource farm families and youth in communities on production and marketing

Year	Target	Actual
2007	{No Data Entered}	6

**Output #10****Output Measure**

- Conduct educational field days for limited resource farm families, vendors and youth in communities on marketing

Year	Target	Actual
2007	{No Data Entered}	4

**Output #11****Output Measure**

- Conduct educational tours for limited resource farm families, vendors and youth in communities on production and marketing

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	{No Data Entered}	2

**Output #12****Output Measure**

- Conduct educational training on agronomy production to limited resource farm families on syrup crop production and marketing

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	{No Data Entered}	2

**Output #13****Output Measure**

- Develop educational fact sheet on Marketing and Distribution to limited resource farm families

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	{No Data Entered}	2



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

<b>O No.</b>	<b>OUTCOME NAME</b>
1	Percentage of clientele (experiencing financial difficulty) who will benefit from the planned program through training workshops and technical assistance offered by extension personnel
2	Percentage increase in farmers who demonstrate knowledge or skill gains
3	Percentage increase of clientele gaining knowledge or skill to minimize legal risks on farms
4	Percentage increase of clientele who will gain knowledge of farm and financial management
5	Percentage of farmers that have modified from existing practices or technologies
6	Percentage of farmers that have adopted new production management practices and technologies to address current issues
7	Percentage of farmers to establish and maintain a budget
8	Percentage of farmers that learn how to balance their accounts
9	Percentage of farmers that developed a complete record book or some formalized record keeping system
10	Percentage of Increase in annual farm income for participating farmers
11	Percentage of Increase in the number of youth applying for farm operation loans
12	Percentage of decrease in the number of farmers losing farms
13	Percentage of increase in the number of farmers who will gain knowledge on new marketing techniques
14	Percentage of increase in the number of farmers improving handling
15	Percentage of increase in the number of clientele making crop choices for sustainability and increased profitability
16	Percentage of increase in the number of clientele who will improve marketing efficiency through best marketing practices
17	Percentage of farmers that have modified from existing practices or technologies
18	Percentage of farmers that have adopted new marketing practices and technologies
19	Percentage of farmers and vendors that will respond to environmental impacts of their operations and management decisions on marketing

**Outcome #1****1. Outcome Measures**

Percentage of clientele (experiencing financial difficulty) who will benefit from the planned program through training workshops and technical assistance offered by extension personnel

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	25

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Farmers are facing difficulties in their farming operation because of the lack of funding. In order to plan an efficient operation and to make good sound management decisions, you must have accurate funding. One source of funding is Farm Service Agency (FSA). Farmers have difficulties in understanding and completing FSA loan application when applying for these funds.

**What has been done**

FSA loan application process training was provided to educate anyone who has a desire to apply for a loan. FSA loan application process training was provided to educate anyone who has a desire to apply for a loan. These were educational work sessions provided to educate the individuals on the application process. Practical exercises were given utilizing real world circumstances.

**Results**

Evaluation indicates that 25% of the clients gained knowledgeable of how to complete the loan application and understanding the concept of the application process. Participants are better prepared to address real world problems and become more profitable and better prepared to operate in today's changing business environment through understanding the application and its components.

**4. Associated Knowledge Areas**

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

**Outcome #2****1. Outcome Measures**

Percentage increase in farmers who demonstrate knowledge or skill gains

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	25

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Farmers still face significant problem due to the lack of knowledge/skills necessary to make sound management decision about their farm enterprise.

**What has been done**

Farmers were trained on the Best Management Practices (BMP) depending on their farm enterprise thought a structured training program.

**Results**

Participants have increased their skills and knowledge of various enterprise production techniques that fosters better decision making and leads to increase in production by 25%.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
602	Business Management, Finance, and Taxation

**Outcome #3****1. Outcome Measures**

Percentage increase of clientele gaining knowledge or skill to minimize legal risks on farms

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	25	25

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

The successful navigation of todays legal environment is as important to the profitability of the family farm as the ability of the farmers to produce a highquality, marketable crop. Farmers lack an understanding of legal issues that may be encountered on a family farm which contributes to better management or minization of those associated legal risks.

**What has been done**

Seven structured training sessions were provided to familiarize farmers with the legal issues associated with family farm operations and the risk management strategies that will help them to deal with these issues. Those issues were: 1) Personal and property ownership and related damage liabilities 2) Contractual arrangements and agreements; 3) Personal and business liabilities and 4) Environmental regulations and legal obligations.

**Results**

As a result 25% of the workshop participants can now identify various types of legal risks associated with different aspects of a family farm operation. Participants can Utilize risk management strategies to deal with property ownership and damage liabilities. Participants can explore risk management strategies that address environmental regulations and damage liabilities in relation to a family farm operation. Participants gained knowledge of legal risk management methods that address the personal and business liabilities that are most often encountered on a family farm. Participants can now Identify risk management tools to handle the legal matters associated with operating a family farm business and participants can explore ways to address the risks associated with the contractual arrangements and agreements of a family farm.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
602	Business Management, Finance, and Taxation

**Outcome #4****1. Outcome Measures**

Percentage increase of clientele who will gain knowledge of farm and financial management

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	25	20

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Rural Cooperatives are in need of help with farm and financial management to maintain in effectiveness as a cooperative as well as individuals in the cooperative. The farmers also lacked the knowledge of proper financial management tools to prepare to operate in today's changing business environment.

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**What has been done**

Alcorn State University Small Farm Outreach and Training and Technical Assistance Project work closely with all USDA Agencies, federal and state agencies with the Cooperatives in providing training to ensure limited resource farmers receive training and technical assistance needed to improve their operations and increase profitability.

**Results**

Evaluation shows that 25% of cooperatives and farmers can now adapt to new innovations that will allow them to take advantage of opportunities for enhancing their profitability by producing nontraditional crops in relation to traditional crops. Farmers are more knowledgeable of the relationship that the family household budget has a direct effect on the farm operational budget if not properly budgeted. Increase production, which increases income, affords the opportunity to meet obligations, which in turn improves their socioeconomic status and quality of life.

**4. Associated Knowledge Areas**

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

**Outcome #5****1. Outcome Measures**

Percentage of farmers that have modified from existing practices or technologies

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Farmers are facing difficulties in understanding farm practices because of the lack of knowledge/skills of current techniques and information. Some farmers are unable to read and write. Utilizing hands on demonstrate, the farmer will gains and maintain and comprehends the information presented to them.

**What has been done**

The Small Farm Outreach Project demonstrations/exhibits provided to small farmers, limited resource, and the general public the importance of accurate herd management that minimize medical and vet expenses.

**Results**

10%of small farmers & limited resource persons have gained skills in herd chemical application, working the herd and knowledge of certain disease and insects that can be control through proper management techniques.

**4. Associated Knowledge Areas**

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

**Outcome #6****1. Outcome Measures**

Percentage of farmers that have adopted new production management practices and technologies to address current issues

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	1

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Various farmers were in need of training in Farm Management because some farmers lacked management skills to keep records to document production of crops. Farmers have difficulty qualifying for funds from USDA due to the lack of production history developed when a farmers keeps farm production records.

**What has been done**

ASU Small Farm Outreach provided training on the importance of record keeping and provided small farm record book developed by the project to farmers as an incentive to get the farmers started to adapting to the concept of farm record keeping. NRCS and Alcorn provided training on the importance of irrigation and having the proper plant nutrients in the soil to produce an effective and profitable crop.

**Results**

NRCS paid the farmers for keeping good and adequate records. As a result 10% farmers who participated effectively kept good records in order to get paid.

**4. Associated Knowledge Areas**

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

**Outcome #7****1. Outcome Measures**

Percentage of farmers to establish and maintain a budget

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

NA

**What has been done**

NA

**Results**

NA

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
604	Marketing and Distribution Practices

**Outcome #8****1. Outcome Measures**

Percentage of farmers that learn how to balance their accounts

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	8

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Borrowers continue to face real world problems with their farm operations which hinder their ability to become more profitable and better prepared to make sound business decision.

**What has been done**

The Small Farm Outreach Project provided a structured training/workshop to USDA FSA loan borrowers on balance sheets, income statement input cost analysis, cash flow analysis, record keeping, etc.

**Results**

Ten percent (10%) of borrowers increased knowledge and skills needed to complete a balance sheet, income statement and inventory analysis for their farming operations. Borrowers gained knowledge of current farm practices that could minimize farm risks. Borrowers met their educational requirement according to the FSA regulation and qualified to receive additional funds from USDA.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
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**Outcome #9****1. Outcome Measures**

Percentage of farmers that developed a complete record book or some formalized record keeping system

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

In order to plan an efficient operation and to make good sound management decisions, farmers should establish accurate record keeping skills. By doing so, they will be able to measure inputs and outputs, profit and loss. A tracking system will enable the farmer to analyze his position in the operation. Farmers are not fully aware of the importance and benefits of maintaining or keeping accurate records, but in order to plan an efficient operation and make sound management decisions, the farmer must establish record keeping skills.

**What has been done**

Structured farm record keeping classes were provided to Small Families and Limited Resources Farmers with in conjunction with NRCS.

**Results**

Ten percent (10%) of farmers have increased their knowledge of the importance of keeping accurate farm records. Farmers have obtained a structured record keeping instrument. Farmers have met their obligation with USDANRCS to receive a yearly stipend for participating in the training and keeping accurate records.

**4. Associated Knowledge Areas**

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

**Outcome #10****1. Outcome Measures**

Percentage of Increase in annual farm income for participating farmers

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	7

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Farmers are making ends meet but would find it difficult to increase income above input cost.

#### **What has been done**

Participants were trained on how to minimize expenses and production cost and get a greater return on their initial input cost.

#### **Results**

Ten percent (10%) of farmers have gained knowledge and skills necessary to contribute to the decrease in production and input cost and increase production which in turn increase revenue from cost of goods sold.

#### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
602	Business Management, Finance, and Taxation

### **Outcome #11**

#### **1. Outcome Measures**

Percentage of Increase in the number of youth applying for farm operation loans

#### **2. Associated Institution Types**

•1890 Extension

#### **3a. Outcome Type:**

Change in Condition Outcome Measure

#### **3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	10	1

#### **3c. Qualitative Outcome or Impact Statement**

##### **Issue (Who cares and Why)**

A number of youth today lack decision-making skills of being responsible and managing money. These skills will help youth prepare to own and operate a small business that could contribute to paying for college and their becoming future small business owners.

##### **What has been done**

The ASUEP Small Farm Outreach Project provided technical assistance in completing USDA FSA Youth Farm Loan packages to rural youth between the ages of 10 to 20 who want to get a loan to establish and operate income producing projects of modest size in connection with their participation in 4-H clubs, Future Farmers of America, and similar organizations.

##### **Results**

Ten percent (10%) of the youths who received loans have developed life skills, such as planning, money management, and operating skills that will be beneficial throughout their life. These skills are beneficial to youth in managing their small business that hopefully will lead to the development of a commercial farming operation or full fledged business which will help to improve the quality of life for the youth and their family.

#### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
601	Economics of Agricultural Production and Farm Management

### **Outcome #12**

#### **1. Outcome Measures**

Percentage of decrease in the number of farmers losing farms



**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	3	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Each year, hundreds of acres of land belonging to small and limited resource farmers are lost because of the lack of knowledge about prevention or minimizing risk, taxes not being paid, and no formal document indicating that property is transferred.

**What has been done**

Participants in the Vendors Borrowers Training Program were trained on legal issues associated with land ownership, property rights, and estate planning designed to minimize the likelihood of property or farm being lost due to a variety of factors that can be overcome.

**Results**

Participants in the training now have the basic knowledge of their rights as a land and property owner. Participants now have a better understanding of what is an Estate and what would go into a plan. Those individuals that didn't have a will now know the importance of it and the type that will best fit their situation.

**4. Associated Knowledge Areas**

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

**Outcome #13****1. Outcome Measures**

Percentage of increase in the number of farmers who will gain knowledge on new marketing techniques

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	{No Data Entered}	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Marketing of agricultural products is essential for small farm viability since it is the revenue generating apparatus or life-line for an enterprise. It has been a challenging activity for most producers who tend to invest more time and effort on actual physical production. As a result, their agricultural enterprises often do not perform well.

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**What has been done**

Educational materials have been developed to provide technical assistance during the educational workshop. These workshops provided techniques, tips and strategies to connect to direct markets.

### Results

Clients gained knowledge of the various direct marketing strategies and techniques. Participants can now identify various types of marketing techniques through direct marketing practices.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
604	Marketing and Distribution Practices

### Outcome #14

#### 1. Outcome Measures

Percentage of increase in the number of farmers improving handling

#### 2. Associated Institution Types

•1890 Extension

#### 3a. Outcome Type:

Change in Knowledge Outcome Measure

#### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2007	{No Data Entered}	0

#### 3c. Qualitative Outcome or Impact Statement

##### Issue (Who cares and Why)

Marketing involves several physical and coordinating functions, such as: assembly, sorting, grading, packing, transporting, storing, processing, wholesaling, retailing, and negotiating terms of trade, for example: price, quality, quantity, time and place of delivery, and assumption of marketing risks.

##### What has been done

Post Harvest handling techniques have been developed to present to our growers by conducting 5 demonstrations that reached an average of 15 growers per demonstration.

### Results

Participants have gained skills in post harvest handling techniques. Educational information was disseminated to enable farmers and vendors to identify those techniques that best fit their promotional effort in making their produce and product highly visible.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
604	Marketing and Distribution Practices

### Outcome #15

#### 1. Outcome Measures

Percentage of increase in the number of clientele making crop choices for sustainability and increased profitability

#### 2. Associated Institution Types

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	{No Data Entered}	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Farmers are facing difficulties in making crop choices/selections which has resulted in low sustainability and less profitability.

**What has been done**

Workshops and educational materials on enterprise budgets were given to the farmers to conduct a comparative analysis to see which crops are more profitable.

**Results**

The Farmers made sound decisions on the various crops that are sustainable and profitable.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
604	Marketing and Distribution Practices

**Outcome #16****1. Outcome Measures**

Percentage of increase in the number of clientele who will improve marketing efficiency through best marketing practices

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	{No Data Entered}	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Farmers need assistance with marketing their produce, because they lack an understanding of the importance of good marketing practices and strategies.

**What has been done**

A series of three educational sessions with an average of 12 participants per session have been conducted to address key marketing tips and techniques that can be adopted in the farmers individual operations/enterprises.

**Results**

The farmers and vendors received hands-on experience with illustrations on marketing practices that improved their overall efficiency in marketing. This resulted in a knowledge base increase in comparison to 10% in pre test 50-60 %.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
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**Outcome #17****1. Outcome Measures**

Percentage of farmers that have modified from existing practices or technologies

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	{No Data Entered}	4

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Farmers are facing difficulties in understanding the marketing process because of the lack of knowledge and techniques.

,

**What has been done**

The ASUEP Marketing Coordinator and Small Farm Development Center (SFDC) Marketing Specialist provided four demonstrations to small limited resource farmers to illustrate the importance of modifying existing practices/technologies in marketing of their produce/products.

**Results**

The limited resource farmers gained skills and modified their existing technologies resulting in marketing their produce/products successfully.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
604	Marketing and Distribution Practices

**Outcome #18****1. Outcome Measures**

Percentage of farmers that have adopted new marketing practices and technologies

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	{No Data Entered}	3

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Several farmers are in need of training in marketing strategies because many farmers lack the skills to market their crops successfully due to the lack of training techniques.

#### **What has been done**

ASU Extension Program and SFDC provided training on the importance of being able to adopt new marketing practices.

#### **Results**

The Marketing Program will provide training on the importance of market planning and provided farmers information on developing a marketing plan.

#### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
604	Marketing and Distribution Practices

#### **Outcome #19**

##### **1. Outcome Measures**

Percentage of farmers and vendors that will respond to environmental impacts of their operations and management decisions on marketing

##### **2. Associated Institution Types**

•1890 Extension

##### **3a. Outcome Type:**

Change in Knowledge Outcome Measure

##### **3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	{No Data Entered}	4

##### **3c. Qualitative Outcome or Impact Statement**

##### **Issue (Who cares and Why)**

There is an increase of consumers on a daily basis that are seeking organically grown produce/products. Our nation is becoming more health conscious and the demand is there for the limited resource farmer to take full advantage.

##### **What has been done**

4 Educational programs were conducted to illustrate marketing tips and techniques to make sound management decisions on marketing.

##### **Results**

Educational workshops for farmers and vendors to provide them with improved techniques by gaining hands-on experience with illustrations of marketing practices.

#### **4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
604	Marketing and Distribution Practices

#### **V(H). Planned Program (External Factors)**

**External factors which affected outcomes**

- Natural Disasters (drought,weather extremes,etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations
- Competing Public priorities
- Competing Programmatic Challenges
- Populations changes (immigration,new cultural groupings,etc.)

**Brief Explanation**

The External Factors having a negative impact on the success of the programmatic efforts were the unavailability of research staff to facilitate programs stated to be accomplished by the research department. The unavailability of outreach funding was also a factor in providing assistance to small and limited resource farmers and their families in making good sound management decisions. There must be accurate funding for training, workshops, travel, materials, etc that are necessary in increasing productivity on small farmers which minimizes the amount of risk through effective marketing activities.

**V(l). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Retrospective (post program)
- During (during program)
- Comparisons between program participants (individuals,group,organizations) and non-participants

**Evaluation Results**

Evaluations were given to determine the worthiness of the program. Pre and post tests were given to determine the knowledge gained. Participants' knowledge was increased due to training and workshops that were captured in the post testing. The participants increased in knowledge and the ability to make better sound management decisions which minimize risk and increase efficiency and productivity and will result in an increase in profit.

**Key Items of Evaluation**

**Program #7****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Forestry Natural Resources and Preservation

**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		30%		30%
123	Management and Sustainability of Forest Resources		30%		30%
125	Agroforestry		15%		15%
131	Alternative Uses of Land		25%		25%
	<b>Total</b>		100%		100%

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	3.5	0.0	2.6
<b>Actual</b>	0.0	3.5	0.0	2.6

**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	103343	0	172306
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	103343	0	172306
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**

Agroforestry an intentional growing of woody plants with row crops, forages, and/or livestock practice was used to create a use for non-woody forest products. The forest product used in this research was pine straw. The pine straw was gathered from a near by un-manicured pine grove. The pine straw was weighed and debris separated from pickings. After debris was removed, the pine straw was painted with various colors using interior/exterior varieties. The painted pine straw was tested for odor and longevity. The colored straw was further utilized as components in floral arrangements. The floral arrangements were tested for odor, paint ability, value-added potential, and form stability. These arrangements were also designed to provide limited-resource farmers with additional income during the maturing process of their pine timbers.

**2. Brief description of the target audience**

- Small Farmers (less than 100 acres)
- Youth Aged 12-18 Years
- Extension Educators
- Non-Agriculture Landowners
- Policy Makers

**V(E). Planned Program (Outputs)****1. Standard output measures****Target for the number of persons (contacts) reached through direct and indirect contact methods**

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	500	1000	150	300
2007	45	1500	30	150

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

Year      Target

Plan:    0

2007 :    0

**Patents listed****3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	Extension	Research	Total
Plan			
2007	0	0	0

**V(F). State Defined Outputs****Output Target****Output #1****Output Measure**

- Conduct educational demonstration and tours for Limited Resource farm families and youth in communities

Year	Target	Actual
2007	2	1

**Output #2****Output Measure**

- Conduct Educational workshops

Year	Target	Actual
2007	2	0

**Output #3****Output Measure**

- Conduct Fair Exhibits

Year	Target	Actual
2007	1	0



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

O No.	OUTCOME NAME
1	Number of participants gaining knowledge
2	Nuber of persons implementing erosion techniques
3	% decrease of soil erosion

**Outcome #1****1. Outcome Measures**

Number of participants gaining knowledge

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	5	5

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Small farmer and limited-resource farmer need additional income to improve their quality of life.

**What has been done**

Research on using pine straw as an alternative income was created by painting the straw and form floral designs.

**Results**

The pine straw was paintable, durable, and odorless. It works exceptional well in floral designs.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
131	Alternative Uses of Land

**Outcome #2****1. Outcome Measures**

Number of persons implementing erosion techniques

**2. Associated Institution Types**

- 1890 Extension
- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	10

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

All farmers including limited resource farmers suffer from erosion problems in Mississippi due to several factors.

**What has been done**

At present information has been gathered to obtain the fastest growing native plants to correct the erosion problem.

**Results**

This research is on-going and not results are obtained at this moment, but they will be forthcoming.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
125	Agroforestry
102	Soil, Plant, Water, Nutrient Relationships

**Outcome #3****1. Outcome Measures**

% decrease of soil erosion

**2. Associated Institution Types**

•1890 Research

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	15	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Small farmers and limited resources farmers are interested in controlling their erosion problems.

**What has been done**

This phase of research has not been initiated.

**Results**

Since this phase of research has not been initiated, there are no results to report.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
102	Soil, Plant, Water, Nutrient Relationships
123	Management and Sustainability of Forest Resources
125	Agroforestry

**V(H). Planned Program (External Factors)****External factors which affected outcomes**

- Natural Disasters (drought,weather extremes,etc.)
- Economy
- Appropriations changes
- Public Policy changes
- Government Regulations

**Brief Explanation****V(I). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)
- Time series (multiple points before and after program)
- Comparisons between program participants (individuals,group,organizations) and non-participants

## **Evaluation Results**

### **Key Items of Evaluation**

**Program #8****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Human Nutrition, Health, Wellness and 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%
	<b>Total</b>		<b>100%</b>		<b>100%</b>

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	4.0	0.0	6.0
<b>Actual</b>	0.0	2.0	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	68895	0	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	68895	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**

Human Nutrition, Health, Wellness and Obesity has fostered healthy lifestyles through disseminating current nutrition education and behavior research into practical application to address health conditions related to obesity. ASUEP-HNHWO has been successful for improving the health status of individuals, families and communities in the state of Mississippi. The educational programs are geared toward intervention, prevention and maintenance of nutrition-related conditions among limited resource audiences in rural communities. The program area has achieved accurate results in assessing the degree of awareness, attitude and behavioral changes among residents. The nutrition education delivered through multiple intervention programs has made a noticeable impact on decreasing excess weight gain and delaying the onset of chronic diseases.

The Extension Educators aggressively conducted 155 workshops within local communities to promote nutrition and healthy lifestyles. Emphasis was placed on improving parents and caregivers' skills to prevent or manage childhood obesity. The workshops included videos, learning activities and role play to focus on behavior changes needed for proper weight management. The workshop activities included information exchange on recipes modification, portion control, food safety, calorie reduction, menu planning and time saver tips.

Participant's attendance was increased with the promotion campaign of radio ads, flyer, personal letters and community leaders.

A total of 12 seminars were provided to increase the use of garden fresh vegetables. Participants of the seminars were introduced to foods preparation methods to include consumption of five (5) phytonutrients rich vegetables: winter squash, broccoli, Brussels sprouts, spinach and eggplant in their menu plan. The seminars provided formation exchange on identification, utilization, and the health benefits of consuming a variety of vegetables. ASU/EP is changing attitudes and behavior in the southern kitchens. Culturally sensitive educational programs reserve the tradition through healthy modification of southern style recipes. Demonstrations were provided to enhance traditional lifestyles with acceptable recommendation in recipe modification. Participants improved lifestyle changes to prolong the quality of life. The demonstrations included hands-on skill building activities for healthy food choices. The learning activities increased the application of food safety, utilization of natural herbs and spices, phytonutrient rich vegetables to adequately manage heart disease, diabetes and hypertension.

The programs' delivered 27 educational training sessions to empower participants to make wise decisions concerning nutrition, health and lifestyle. Technical assistance were provided on a continual basis in the promotion of community activities and events geared toward the improvement of healthy weights, adequate nutrient intake, preventive steps in childhood obesity and intervention steps in managing per-existing medical conditions. The impact of ASU-EP Human Nutrition, Health, Wellness and Obesity Programs are expected to decrease the incident of major health problems and save medical dollars. The program has/continue to translate scientific methods of losing and maintaining healthy weights for longevity of life.

## 2. Brief description of the target audience

- High Risk obese Adults and Youth
- High Risk Adults and youth with Chronic Diseases
- Limited Resource Families
- Other interested community members

The target audience will initially include all community members. Baseline assessment data will be collected on community members from the age of 3 and above. Through the CBPR process the community will identify what they believe are their problems, and through collaborations with the university, will design an intervention to address the identified problem. This could include interventions targeting children or intervention targeting adults or both.

## V(E). Planned Program (Outputs)

### 1. Standard output measures

**Target for the number of persons (contacts) reached through direct and indirect contact methods**

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	4320	7200	5160	7260
2007	2400	1689	3455	1500

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

Year	Target
Plan:	0
2007 :	0

**Patents listed****3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	Extension	Research	Total
Plan			
2007	0	0	0

**V(F). State Defined Outputs****Output Target**

**Output #1****Output Measure**

- Number of community members involved in the CBPR process

Year	Target	Actual
2007	300	0

**Output #2****Output Measure**

- Number of interventions

Year	Target	Actual
2007	0	0

**Output #3****Output Measure**

- Conduct educational classes on base nutrition, physical fitness and lifestyle

Year	Target	Actual
2007	30	14

**Output #4****Output Measure**

- Conduct demonstrations on recipe modification to decrease fat, salt and sugar

Year	Target	Actual
2007	6	12

**Output #5****Output Measure**

- Provide educational seminars on obesity related health conditions

Year	Target	Actual
2007	20	6

**Output #6****Output Measure**

- Conduct community activities in nutrition and health

Year	Target	Actual
2007	12	27

**Output #7****Output Measure**

- Research studies conducted on Human Nutrition, Health, Wellness and Obesity

Year	Target	Actual
2007	2	0

**Output #8****Output Measure**

- Research papers prepared for publication in refereed and non-refereed outlets

Year	Target	Actual
2007	2	0

**Output #9****Output Measure**

- Research results presented at conferences

Year	Target	Actual
2007	2	0



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

<b>O No.</b>	<b>OUTCOME NAME</b>
1	Ninety-seven percent (96%) of participants will cumulatively improve their nutritional knowledge on healthy lifestyle during the next five years
2	Sixty-five percent (65%) of participants will cumulatively increase physical activity, reduce stress and maintain social, emotional and mental health during the next five years
3	Fifty-two percent (52%) of participants will cumulatively improve existing health conditions related to obesity through the enhancement of positive lifestyles during the next five years
4	Thirty percent (30%) will increase their involvement in the number of organized neighborhood sports and or other programs to increase physical fitness among youth at risk during the next five years
5	Thirty-six percent (36%) of participants will cumulatively reduce fast foods consumption with an increase in home prepared meals during the next five years
6	Sixty-eight percent (68%) of participants will cumulatively improve lifestyles behavior in the management or prevention of diabetes during the next five years
7	Eighty-two percent (82%) of participants will cumulatively have improved management skills for hypertension during the next five years
8	Eight-two percent (82%) of participants will cumulatively improved management or prevention skills for heart disease during the next five years
9	Forty-nine percent (49%) of participants will cumulatively improved skills in managing childhood overweight and obesity during the next five years
10	Seventy (70) percent of participants with chronic diseases will show improvement in blood pressure, cholesterol and the presence of metabolic syndrome
11	Forty percent (40%) of participants will cumulatively maintain weight loss during the next five years
12	Seventy-eight percent (78%) of participants will cumulatively properly manage nutrition-related chronic diseases during the next five years
13	Eighty percent (80%) of participants will cumulatively decrease excessive weight gain during the next five years
14	Seventy-two percent (72%) of children will cumulatively increase physical fitness by fifty percent (50%) during the next five years
15	Participants will decrease the number of doctor office visits by thirty percent (30%) during the next five years
16	Participants will Increase the consumption of healthier food products which promote healthier eating and reduction of chronic diseases by forty-five percent (45%) during the next five years

**Outcome #1****1. Outcome Measures**

Ninety-seven percent (96%) of participants will cumulatively improve their nutritional knowledge on healthy lifestyle during the next five years

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	19	63

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Mississippi has the highest obesity rate in the nation, and Jefferson County has the highest obesity rate in the state. A total of 95 percent of clients in Jefferson County do not choose to consume a variety of fruits and vegetables on a daily basis. Obesity is directly related to lifestyles behavior patterns in nutrition and physical fitness. Adopting healthy eating habits that includes a variety of fruits and vegetables can prevent or delay the onset of obesity and medical conditions associated with excessive weight gain.

**What has been done**

The Alcorn State University Extension Program conducted the Eating Healthy Snacks Program during a two-day summer camp to improve the nutritional knowledge on way to adopt healthy lifestyle in the prevention of chronic disease directly related to lifestyle and diet. The purpose of the program was to introduce participants to a variety of healthy snacks. The presentations included: (1) Information exchange on MyPyramid, (2) Healthy snacks demonstrations and (3) Participants sensory evaluation of healthy snacks.

**Results**

According the results of the pre/post evaluation, the 63 participants gained knowledge in healthy snacks preparation. The report showed that 75 percent of the participants agreed that they will improve their consumption of healthier snacks using more fruits and vegetables. Observation records showed that male participants were not as receptive as female participants to the perception of eating more fruits and vegetables.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior

**Outcome #2****1. Outcome Measures**

Sixty-five percent (65%) of participants will cumulatively increase physical activity, reduce stress and maintain social, emotional and mental health during the next five years

**2. Associated Institution Types**

- 1890 Research

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	13	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)****What has been done**

No Activity reported from research

**Results****4. Associated Knowledge Areas**

KA Code	Knowledge Area
702	Requirements and Function of Nutrients and Other Food Components

**Outcome #3****1. Outcome Measures**

Fifty-two percent (52%) of participants will cumulatively improve existing health conditions related to obesity through the enhancement of positive lifestyles during the next five years

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	10	130

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Mississippi leads the nation in obesity and obesity related lifestyle diseases such as diabetes type II, hypertension and heart disease. Among younger men and women ages 35-49 years, chronic diseases account for five of the 10 leading causes of death among men and six of the 10 leading causes of death among women. Additionally, most premature deaths among minority groups and the disadvantaged are due to chronic diseases in Mississippi.

**What has been done**

The Weigh in Your Lifestyle Exhibit included models on the effects of unhealthy lifestyles on the development of breast cancer, hypertension, and diabetes type II, obesity, and heart diseases. The exhibit encouraged proper management of existing health conditions and provide information on ways to enhance positive lifestyles. Participants were asked to complete the Weigh in Your Lifestyle survey to identify personal lifestyle changes that needed improvement to prevent or delay the early development of chronic diseases related to lifestyle.

**Results**

Weigh in Your Lifestyle Exhibit was a great success; one hundred and thirty participants completed the self-assessment survey. As a results the survey identified 12 lifestyle behaviors that needed improvements healthy living. A total of Sixty-two percent of the surveys showed 3-4 lifestyle improvements; forty-one percent identified 5-8 lifestyle improvement, while only three percent identified the need to improve 0-2 lifestyle behaviors.

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
724	Healthy Lifestyle

#### Outcome #4

##### 1. Outcome Measures

Thirty percent (30%) will increase their involvement in the number of organized neighborhood sports and or other programs to increase physical fitness among youth at risk during the next five years

##### 2. Associated Institution Types

•1890 Research

##### 3a. Outcome Type:

Change in Action Outcome Measure

##### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2007	6	0

##### 3c. Qualitative Outcome or Impact Statement

**Issue (Who cares and Why)**

**What has been done**

No Activity reported from research

**Results**

#### 4. Associated Knowledge Areas

KA Code	Knowledge Area
701	Nutrient Composition of Food
703	Nutrition Education and Behavior
724	Healthy Lifestyle

#### Outcome #5

##### 1. Outcome Measures

Thirty-six percent (36%) of participants will cumulatively reduce fast foods consumption with an increase in home prepared meals during the next five years

##### 2. Associated Institution Types

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	7	40

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Jefferson County is located in the heart of Mississippi where the residents practice the highest patriotism to the southern culture style of living. This style of living includes food preparation methods that are characterized by the heavy use of high-calorie cured or salted fats in vegetables, gravies, sauces, and fried meats. Statistics show that Jefferson County has been recognized as the number one county for the prevalence of obesity in the state of Mississippi.

**What has been done**

Alcorn State University Extension Program (ASUEP) Educators presented the Southern Taste with a Healthy Kick Recipe Modification Sensory Demonstration for recipients of the Women Infant and Children (WIC) Program to increase home cooked meal. The purpose of the educational program was to promote modification of the traditional Southern recipes commonly prepared using high fat, salt and sugar ingredients.

**Results**

The post evaluation survey indicated that participants were receptive to adopting preparations methods to lower their consumption of saturated fats, salt and sugar. According to the survey, seventy-eight percent (78%) of the participants plan to cook the recipes for their family and fifty-six percent (56%) agreed to try new and old recipes using the new preparation methods of improving the family is health outcome. A total of 92% stated that they would share the information exchanged at the demonstration with a friend. One participant stated that she didnt eat black eye peas before, but plans to prepare the dish for the family after sampling the recipe.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
724	Healthy Lifestyle

**Outcome #6****1. Outcome Measures**

Sixty-eight percent (68%) of participants will cumulatively improve lifestyles behavior in the management or prevention of diabetes during the next five years

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	14	78

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Diabetes accounted for 661 deaths, with the rate of deaths from diabetes being 127% higher among African Americans than among Whites. Diabetes mellitus is one of the most serious health challenges facing more than 30 million African Americans. Nationally, about 210,000 people under 20 years of age have diabetes, which represents 26% of all people in this group. Approximately one in every 400 to 500 children and adolescents has diabetes type 1.

**What has been done**

The Alcorn State University Extension Program Educators established a partnership with the Alcorn State University School of Nursing to address the need to provide residents within local communities with intervention and prevention educational programs to slow down the early onset of diabetes type II and improve management skills of pre-existing diabetes type I & II. The programs that were presented in community churches were entitled Hope for Diabetes included menu plans, foot care and physical fitness.

**Results**

As a result of the Hope for Diabetes Program, 78 participants throughout the rural communities in Southwest Mississippi improved their knowledge base on the correlation between lifestyle behaviors and diabetes. The menu planning learning activity demonstrated that seventy-three percent of the participants increased their skills in planning and substituting healthy meals and snacks. The program was a big success in the community and received positive feedback from eighty-four percent of the participants.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
703	Nutrition Education and Behavior

**Outcome #7****1. Outcome Measures**

Eighty-two percent (82%) of participants will cumulatively have improved management skills for hypertension during the next five years

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	16	6

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

The Mississippi Department of health reported in 2004, that sixty (60) percent of Mississippis citizens were overweight. Hypertension was thirty-four (34) percent and diabetes was the seventh (7th) leading cause of death in Mississippi. The South draws on multiple unique culinary influences to form its traditional methods of food preparation. This style is characterized by the heavy use of high-calorie cured or salted fats in vegetables, gravies, sauces, and fried meats.

**What has been done**

ASU Nutrition Educators addressed the need to decrease residents consumption of saturated fats and salt with the Southern Greens and Cornbread sensory demonstration at the Mississippi State Fair. The objectives of the demonstration were to improve existing health conditions related to hypertension through the enhancement of positive lifestyles. Interaction Exhibit attracted hundreds of spectators and participants. Seventy-five (75) of the visitors participated in the Southern Greens and Cornbread sensory demonstration and completed the survey.

**Results**

According to the survey ninety-two (92) percent learned a new method of preparing their favorite foods using less salt and fat. Seventy-eight (78) percent would prepare one or more of the dishes for their family, Sixty-three (63) percent are planning to include the dish in their weekly menu plan, eighty-six (86) percent are planning to cook using less saturated fat and salt, and ninety-one (91) percent are planning to share the information gained at the demonstration with a friend. The success of the sensory demonstration suggests that there are significant health benefits to be gained from nutrition education that is targeted at culturally sensitive practices that promote hypertension.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
724	Healthy Lifestyle

**Outcome #8****1. Outcome Measures**

Eight-two percent (82%) of participants will cumulatively improved management or prevention skills for heart disease during the next five years

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	16	38

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Compelling scientific evidence indicates that three major antioxidant nutrients (Beta-carotene, Vitamin C and E) may play a crucial role in preventing or delaying the onset of major chronic diseases including various types of cancer, cardiovascular disease, and strokes. Current research shows that individuals with inadequate antioxidant nutrients double their risk for cancer and cardiovascular diseases.

**What has been done**

The Eggplant Parmesan sensory demonstration at the Natchez Farmers Market were implemented to improve the daily consumption of vegetables; observe and sample cooking methods that reduce fat and salt; implement cooking methods that conserve the water-soluble nutrients in vegetables and decrease fat; and improve their nutritional knowledge on the health benefits of increasing the consumption of a variety of vegetables.

**Results**

Thirty-eight (38) percent of the participants increased their knowledge and awareness of eggplants and educational programs offered in ASU Extension to improve nutritional health. Forty-six (46) percent of the participants increased their knowledge on how to buy, storage, prepare and serve Eggplant Parmesan. Seventy-two (72) percent of the participants improved their nutritional knowledge on the nutrient value of Eggplants and Twenty-seven (27) percent will agree to included eggplant in the family weekly menu plan.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
724	Healthy Lifestyle

**Outcome #9****1. Outcome Measures**

Forty-nine percent (49%) of participants will cumulatively improved skills in managing childhood overweight and obesity during the next five years

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	9	78

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

According to the new life-expectancy analysis, lifestyle diseases could shorten the average lifespan of the entire generation by two to five years. The early onset of lifestyle diseases associated with obesity will result in earlier destructive consequences of Type II diabetes, heart disease, kidney failure and cancer. Mississippi has one of the highest rates of overweight and childhood obesity reports are showing 29 percent.

**What has been done**

Through a host of programs across the Southwest region of Mississippi: The Pyramid Power is Yours, Five a Day Healthy Snacks, and Kids-in-the Kitchen Fun Camp. Each of the programs major focus was to encourage healthy food choices and increase physical fitness to prevent chronic diseases and to stop excess weight gain. Children were taught to substitute a fruit or vegetable for a high fat snack and to improving their levels of physical activity. As a result over 186 youths are expected to improved their food choices to slow down excessive weight gain.

**Results**

The pre/post evaluation showed that seventy-eight (78%) percent of the participants have improved awareness of the correlation between nutrition, exercise and healthy living. The programs learning activities demonstrated that the youth and adults were able to prepare a healthy nutritious snack. Sixty-four percent (64%) of participants were able to identify all the basic food groups on MyPyramid. Ninety-two percent (92%) of the participants were willing to share information gained with family, peers, and friends in their communities.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior

**Outcome #10****1. Outcome Measures**

Seventy (70) percent of participants with chronic diseases will show improvement in blood pressure, cholesterol and the presence of metabolic syndrome

**2. Associated Institution Types**

- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	13	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)****What has been done**

No Activities reported from Research this year



## Results

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
702	Requirements and Function of Nutrients and Other Food Components
703	Nutrition Education and Behavior

### Outcome #11

#### 1. Outcome Measures

Forty percent (40%) of participants will cumulatively maintain weight loss during the next five years

#### 2. Associated Institution Types

•1890 Extension

#### 3a. Outcome Type:

Change in Condition Outcome Measure

#### 3b. Quantitative Outcome

Year	Quantitative Target	Actual
2007	8	85

#### 3c. Qualitative Outcome or Impact Statement

##### Issue (Who cares and Why)

According to USA Today, Mississippi is the most obese state in the nation. Twenty five percent of adults are obese and pediatric obesity is also on the rise. Nearly 1 in 3 adolescents in Mississippi was obese or at risk of becoming obese, especially in rural Mississippi. Jefferson County leads the state in obesity with a rate of (26.1%). It is suggested that the key to preventing obesity is to promote behavior modification by decreasing calories intake and increasing physical activity.

##### What has been done

Alcorn State University Extension Program (ASUEP) Educators sponsored the ASU Healthy Weights Program at the Jefferson Comprehensive Health Center. The educational goals of the program were to provide continual series of sessions to: (1) Exchange information on scientific methods for weight loss of 5-10 percent of total body weight, (2) Stop excessive weight gain and (3) Implementation of behavior changes to maintain healthy weights.

##### Results

One hundred and ten (110) participants registered for the program, with eight-five (85) completing the program requirements. Data analyzed collected from the pre-post evaluation tracking system showed an average mean score of 3-4 pounds of weight loss in twenty-seven percent (27%) of the participants. Fifty-one percent (51%) showed improvements in diastolic and systolic readings in blood pressure. The consumption of vegetables and dairy products increased by twenty-eight percent (28%) and foods high in fat, salt and sugar decreased by twenty-four percent (24%) among program participants. Verbal pledges were made to change eating habits and to challenge family and friends to adopt healthy eating habits with increase physical activities.

### 4. Associated Knowledge Areas

KA Code	Knowledge Area
703	Nutrition Education and Behavior

### Outcome #12

#### 1. Outcome Measures

Seventy-eight percent (78%) of participants will cumulatively properly manage nutrition-related chronic diseases during the next five years

**2. Associated Institution Types**

- 1890 Research

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	16	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)****What has been done**

No Activities reported from research this year

**Results****4. Associated Knowledge Areas**

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

**Outcome #13****1. Outcome Measures**

Eighty percent (80%) of participants will cumulatively decrease excessive weight gain during the next five years

**2. Associated Institution Types**

- 1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	16	44

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Recent statistics show that obesity is one of this nations major health problems today. Nearly one in three adolescents and children are now at risk of becoming overweight. Studies have shown Mississippi to be one of the states where obesity and obesity-related chronic diseases are the number one focus. Research shows that a properly designed nutrition education program, which focuses on behavior changes, can be an effective tool in slowing down excessive weight gain.

**What has been done**

Alcorn State University Extension Program Nutrition and Health presented a workshop entitled: Your Health a Matter of Lifestyle Behavior at the Community Comprehensive Health Center. The program was information driven on weight management and positive behavior changes. The workshop also included an open discussion on the role of the community in reducing the rise in nutrition related chronic diseases. A total of 44 participants attended the workshop and participated in the learning activities to adopt lifestyle behaviors to decrease excessive weight gain.

**Results**

According to the evaluation form ASU is changing attitudes to stop excessive weight gain. As a result of the workshop, ninety-two percent (92%) of the participants strongly agreed to the statement I have learned some valuable information today during the workshop. Ninety-eight percent of the participants strongly agreed to the statement I plan to use portion control for weight management. The statement I plan to drink or eat two or more cups of fruits and vegetables ranked ninety-four percent (94%). Ninety percent (90%) of the participants strongly agreed to the statement I will try hard to include more physical fitness into my daily routine and one hundred percent (100%) strongly agreed to the statement I plan to visit MyPyramid website. While eighty-six percent (86%) strongly agreed to the statement, I plan to include high fiber foods into my daily menu plan.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
724	Healthy Lifestyle

**Outcome #14****1. Outcome Measures**

Seventy-two percent (72%) of children will cumulatively increase physical fitness by fifty percent (50%) during the next five years

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	13	124

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

The lack of physical activity among Americans of all ages is so critical, it is considered to be a major health risk factor. Studies indicate that 61.5% of children aged 9-13 years do not participate in any organized physical activity and that 22.6% do not engage in any free-time physical activity. African Americans children were significantly less likely to report involvement in organized physical activities, as were children with parents who had lower levels incomes and education.

**What has been done**

The Alcorn State University Extension EFNEP educators conducted 8 monthly nutrition education sessions in the Jefferson County Elementary School to provide the students and teachers with technical assistance on making healthy choices with increased physical fitness activities. The key message 'Healthy Eating and Physical Fitness' focused on the importance of good nutrition and physical activity.

**Results**

The program provided innovative solutions that motivated children to increase physical fitness. As a result of the oral assessment, 100% of the students agreed to include more fitness into their daily activities, and 80% of the children agreed to make healthier choices when choosing foods to eat. Physical educational programs within the schools were made accessible to all students. Programs in schools offer the best opportunity to reach all children and teach them the skills and knowledge needed to establish and sustain an active lifestyle.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
724	Healthy Lifestyle

**Outcome #15**

**1. Outcome Measures**

Participants will decrease the number of doctor office visits by thirty percent (30%) during the next five years

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	6	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Medical studies show that the common cold, also known as a viral upper respiratory tract infection, is a contagious illness that can be caused by a number of different types of viruses. In fact, each year the U.S. population experiences up to one billion colds. The common cold accounts for the loss of 189 million school days and 50 million work days each year. Medical attention is required for 75 percent of all colds suffered by children less than five years of age.

**What has been done**

The Alcorn State University Extension Program Family and Consumer Science Educators joined forces with a consortium of community organizations to sponsor the two day Safety Camp for youth at risk included displays and educational sessions on safety rules, to prevent accidents, health hazards and bacteria. The display demonstration included: (1) Proper food handling techniques (2) Prevention strategies in the spread of the common cold and (3) Safety tips in the Kitchen.

**Results**

As a result of the two day safety camp the consortium was able to provide information exchange, demonstrations and displays to 124 youth at risk. The students gained valuable knowledge in an out-door environment, rotating in groups to visit each learning station. The students exemplified great interest and enthusiasm for the information exchanged and hands-on-experiences during ASU-EP presentation Making Healthy Choices for Kids Program. One hundred percent (100%) of the participants gave verbal feedback to improve their safety skills in preventing the common cold and the spread of bacteria in foods and in the kitchen.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior

**Outcome #16****1. Outcome Measures**

Participants will Increase the consumption of healthier food products which promote healthier eating and reduction of chronic diseases by forty-five percent (45%) during the next five years

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	9	9

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

According to the United States Department of Agriculture, African American youths are falling short of calcium. Ninety-five (95) percent of African American teen girls and seventy-seven (77) percent of African American teen boys do not consume adequate amounts of calcium for proper growth. Lactose intolerance has been identified as one of the major factors contributing to African American teens low intake of dairy products.

**What has been done**

Alcorn State University Expanded Foods and Nutrition Education Program addressed the problem of inadequate consumption of dairy products among African American teens during National Dairy Month. A total of ten (10) group sessions were conducted throughout the month of June. The topics discussed included: Milk Does the Body Good and Making Healthy Choices with MyPyramid to promote healthy eating habits for chronic disease prevention.

**Results**

Evaluation of the National Dairy Month campaign was assessed through oral communication and observation. Program evaluation indicated that eighty-one percent of the children consumed milk and dairy products on regular bases. Five percent were lactose intolerance and fourteen percent did not drink milk or eat dairy products on a regular base. The children responded positive on the concept of including milk in their daily meal plan. One hundred percent of the children agreed to the questions I have you learn a new function that milk provides for the body.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
703	Nutrition Education and Behavior

**V(H). Planned Program (External Factors)****External factors which affected outcomes**

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Public Policy changes
- Other (Poor transportation, Human Resource)

**Brief Explanation**

**Natural Disasters:** Southwest Mississippi is located in the heart of tornado ally and the weather conditions in the summer months reach well above 100 degrees. Natural disasters has caused a decrease in program participation because nutrition education programs are not the major focus for a under served population with damaged or poor living conditions as a results of tornados and hurricanes.

**Economy:** ASU target audiences are rural families living on a set budget of minimum wages. The budgets most often do not included adequate amounts to money to purchase proper foods to prepare well-balanced home cooked meals. Families with limited budgets to purchase foods, most offered choose cheaper foods with more fat, salt and sugar to expand the family's food budget.

**Public Policy:** Changes and/or cuts in Medicare and Medicaid have a direct affect on the medical expenditures among people depending on government and human services assistance to pay for doctor visits and medicine .

**Poor Transportation:** Gasoline prices have caused a decrease participation in nutrition programs and community activities.

**Human Resources:** major research personnel resigned during mid of the year and not able to conduct any planned reseach activities. Hence no activities reported from Research counterpart.

## **V(I). Planned Program (Evaluation Studies and Data Collection)**

### **1. Evaluation Studies Planned**

- Before-After (before and after program)
- During (during program)
- Case Study
- Comparisons between program participants (individuals,group,organizations) and non-participants

### **Evaluation Results**

In behavior study there is a need to consider both individual variations within each community, and community level variations within each treatment group. Two sets of sample sizes must be considered: the number of individuals in each community to be sampled and the number of communities to be included. Studies should report justification for sample size at both of these levels with, ideally, power calculations at both individual and community level. Intervention Group – Participants who attend events, activities and programs developed and implemented to improve weight managements, chronic diseases and healthy lifestyles will be identified as the intervention group. Control Group— randomly selected rural counties who did not receive the intervention will be asked to complete the pre-post evaluation instrument to measure nutrition knowledge, food choices, attitudes and behavioral changes compared to that of the intervention counties. The Pre-Post Evaluation instruments to measure awareness, knowledge, attitudes and the health belief model of the intervention counties compared to that of the control counties who did not receive the Healthy Weights Program intervention model. Primary data will be transferred from the Tracking and Evaluation Folders using the computer software program Nutritionist IV Data Base. The data will be used for evaluating the lifestyle of the rural communities. Research scientists will have access to valid data, which can be used to write nutrition articles and design educational prevention programs in nutrition and health. Data collected will not only serve as tools for evaluating program outcome and impact, but as an avenue for collecting primary data on the living conditions, nutrition status, lifestyle and health problems of the rural communities in Southwest Mississippi. Sustainable Evaluation mail-out instruments to measure project participants six weeks after completing Healthy Weights 10-week segment. The instruments will assess the impact. Reference: McGinnis, J. M. and Nestle, M. (1989). The Surgeon General's report on nutrition and health: Policy implications and implementation strategies. American Journal of Clinical Nutrition, 49, 23-28. Centers for Disease Control and Prevention. Obesity still on the rise, new data show. National Center for Health Statistics. Available at: <http://www.cdc.gov/nchs/releases/02news/obesityonrise.htm>. Accessed March 14, 2004.

### **Key Items of Evaluation**

**Program #9****V(A). Planned Program (Summary)****1. Name of the Planned Program**

Agronomy Production Systems

**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		32%		0%
501	New and Improved Food Processing Technologies		32%		0%
604	Marketing and Distribution Practices		36%		0%
	<b>Total</b>		100%		0%

**V(C). Planned Program (Inputs)****1. Actual amount of professional FTE/SYs expended this Program**

Year: 2007	Extension		Research	
	1862	1890	1862	1890
<b>Plan</b>	0.0	4.0	0.0	0.0
<b>Actual</b>	0.0	4.0	0.0	0.0

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

Extension		Research	
<b>Smith-Lever 3b &amp; 3c</b>	<b>1890 Extension</b>	<b>Hatch</b>	<b>Evans-Allen</b>
0	137791	0	0
<b>1862 Matching</b>	<b>1890 Matching</b>	<b>1862 Matching</b>	<b>1890 Matching</b>
0	137791	0	0
<b>1862 All Other</b>	<b>1890 All Other</b>	<b>1862 All Other</b>	<b>1890 All Other</b>
0	0	0	0

**V(D). Planned Program (Activity)****1. Brief description of the Activity**

The program focuses on demonstrating research-based information on the agronomic practices required for producing value added and marketing of syrup crops (sugarcane and sorghum). In the efforts of "Reviving the Syrup Industry in Mississippi", the ASUEP agronomy program demonstrates marketing and distribution practices that will educate sugarcane, sweet sorghum and syrup producers and processors in making crop or syrup marketing and distributions more profitable. The agronomy program included 36 marketing/distribution practices and educational demonstrations and workshops to evaluate and influence the profit producers and processors obtain from syrup crops/products. Contacts were made with 1,005 participants to deliver marketing/distribution practices and educational demonstrations during 160 program planning hours. There were 69 soil/water/nutrient educational demonstrations held to emphasize soil, plant, water, nutrient relationships using various tilling methods (No till and minimum tillage). Contacts were made with 245 participants to deliver educational soil/water/nutrient demonstrations during 331 program planning hours. Different fertilizer treatments and moisture applications were used to produce high income syrup crops, under selected Mississippi soils conditions. The agronomy program educated 1,090 producers on new and improved food processing technologies suited to the needs of the small farmers during 36 demonstrations. Such technologies include crop varieties that tolerate or resist natural environmental pest and pest management programs that utilize judicious combinations of pesticides, host resistance, and cultural methods. The impact of different plant management systems of plant density, row preparation, irrigation sources, application methods and other management practices on the growth and development of each test crop were demonstrated. The program increases minority landowners' awareness of income opportunities through syrup crop management practices by developing or improving soil management, crop production, processing and marketing techniques. The program educates limited resource producers and small farmers on the economic importance in soil fertility, nutrient sustainability and the vital role they play in crop production. Syrup crops, value added processing, and marketing educational programs are provided to farmers. This new technology allows farmers to make additional profits from their products. New and improved food processing technologies using the mobile syrup processing cooker (Mill on Wheels) is used to educate farmers on how to add value, package and market their syrup crops (sugarcane and sweet sorghum). Fundamental changes occurring in the state and regional economy, within which agricultural and horticultural enterprises operate, assist in the decrease of syrup producer's state wide. The specific implications of these external factors vary greatly by locale and across commodity and business forms. Population and land use changes in farming communities led to producer and neighbor issues that influence choice of production practices. Choices in improving production practices were influenced mainly by external factors as variations in climate during each growing season, inadequate appropriations, public policy and changes. Natural adverse conditions (natural disasters, drought, weather extremes, etc.) are major external factors that affected the outcome of state wide syrup crop production and marketing. The fluctuation in the agricultural and global economy determines profitability versus prices of commodities, supplies and other needed sources. Supply and demand will facilitate changes occurring in the state and regional economy within which agricultural enterprises operate. Public policy, especially those relating to comparative prices of inputs and harvested crops, is another constraint that affects outcomes. If it is politically feasible to provide farmers a high price for their product while holding down input cost, farmers will utilize the inputs as they accept the new technology. Municipal and commercial zoning such as competitive land use, shifting development patterns and global market influences are external factors that change government regulations and may affect outcome due to decrease in favorable agricultural land. Rezoning can also motivate or initiate changes in a rural population due to immigration, relocation and new cultural grouping.

## 2. Brief description of the target audience

The targeted audience will consist of limited-resource farmers, land owners and part time producers / processors. The goal is to increase sustainable agronomic practices and techniques on small limited resource farms in the state of Mississippi.

## V(E). Planned Program (Outputs)

### 1. Standard output measures

Target for the number of persons (contacts) reached through direct and indirect contact methods

	Direct Contacts Adults	Indirect Contacts Adults	Direct Contacts Youth	Indirect Contacts Youth
Year	Target	Target	Target	Target
Plan	650	600	120	500
2007	600	650	100	560

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

#### Patent Applications Submitted

Year	Target
Plan:	0
2007 :	0



**Patents listed****3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	<b>Extension</b>	<b>Research</b>	<b>Total</b>
<b>Plan</b>			
2007	0	0	0

**V(F). State Defined Outputs****Output Target****Output #1****Output Measure**

- Conduct educational seminars for Limited Resource farmers and youth in communities on Soil, Plant, Water, Nutrient Relationships of agronomic crops

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	20	8

**Output #2****Output Measure**

- Conduct educational workshop for limited Resource farm families and youth in communities on syrup crop production and marketing

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	20	10

**Output #3****Output Measure**

- Conduct educational field days for Limited Resource farm families and youth in communities on syrup crop production and marketing

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	10	5

**Output #4****Output Measure**

- Conduct educational tours for Limited Resource farm families and youth in communities on syrup crop production and marketing

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	10	2

**Output #5****Output Measure**

- Conduct educational training on agronomy production to limited resources farm families on syrup crop production and marketing

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	15	8

**Output #6****Output Measure**

- Develop and educational facts sheets on agronomy production to limited resources farm families on syrup crop production and marketing

<b>Year</b>	<b>Target</b>	<b>Actual</b>
2007	3	0

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

O No.	OUTCOME NAME
1	Number of participants to gain knowledge on new production-management practices, techniques will gradually increase
2	Increase in the number of participants improving product handling of syrup crop and marketing value added products
3	Number of program participants to improve production efficiency through best management practices
4	Number of program participants for environmental impacts of their operations
5	Number of program participants pursuing opportunities to meet environmental regulations and programs on syrup crop production and marketing
6	Number of program participants utilizing integrated nutrient management for sustainable agronomic production and environmental protection
7	Number of program participants in integrated pest management for sustainable agronomic production and environmental protection
8	Number of program participants in waste management for sustainable agronomic production and environmental protection
9	Number of program participants in recycling methods for sustainable agronomic production and environmental protection
10	Number of producers to have adopted new syrup crop production, management and marketing practices and technologies
11	Number of producers assessed potential environmental impacts of their operations and management decisions on syrup crop production and marketing
12	Number of producers responded to environmental and market variations through alternative crop or management strategies on syrup crop production and marketing
13	Number of producers documented best management practices in their recommendations on syrup crop production and marketing
14	Number of producers documented to have assessed potential environmental impacts of their operations on syrup crop production and marketing
15	Number of producers developed and implemented nutrient management plans to meet production and performance goals and meet both State & Federal regulations on syrup crop production and marketing
16	The numbers of producers developed, implemented or modified current plans to meet production performance goals and meet both State & Federal regulations on syrup crop production and marketing
17	The number of producers documented to have improved economic returns to agronomic profitability and vitality resulting from enhanced production management practices on syrup crop production and marketing
18	The number of producers documented to meet or exceed current environmental protection standards as a result of participating in relevant educational programs in syrup crop production and marketing
19	The number of producers reported reduced environmental concerns for participating enterprises in syrup crop production and marketing

**Outcome #1****1. Outcome Measures**

Number of participants to gain knowledge on new production-management practices, techniques will gradually increase

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	400	200

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Lack of knowledge of new production management practices for sugarcane production among the small farmers.

**What has been done**

Workshops and demonstration were conducted in the area of production management practices to improve the small farmers knowledge in the subject matter.

**Results**

The post evaluation indicates that the small farmers are going to use these practices in the production of sugarcane. An increase in knowledge observed among the farmers.

**4. Associated Knowledge Areas**

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

**Outcome #2****1. Outcome Measures**

Increase in the number of participants improving product handling of syrup crop and marketing value added products

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	400	450

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Limited knowledge of sanitary guidelines to handle and market of syrup products.

**What has been done**

Demonstrations and marketing display were illustrated to the small farmers during Mississippi State Fair 2006 on the procedures and techniques to handle syrup products.

**Results**

Farmers gained knowledge on how to handle syrup crops and marketing for value added products.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
604	Marketing and Distribution Practices

**Outcome #3****1. Outcome Measures**

Number of program participants to improve production efficiency through best management practices

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	400	20

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Decline in crop production due to poor management strategies.

**What has been done**

Workshops were conducted on cultural practices such as crop rotation, conservation tillage and nutrient management.

**Results**

Most farmers indicated that they are going to adopted crop rotation, conservation tillage and nutrient management to improve their syrup crop production.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
102	Soil, Plant, Water, Nutrient Relationships

**Outcome #4****1. Outcome Measures**

Number of program participants for environmental impacts of their operations

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	400	200

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Limited-resource farmers are faced with erosion problems, low organic matter and loss of top soil due to constant tillage of their soil.

**What has been done**

About 200 farmers attended workshops on conservation tillage practices. This systems help to maintain and improve soil structure and decrease weed emergence.

**Results**

Farmers indicated their willingness to adopt this technology.

**4. Associated Knowledge Areas**

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

**Outcome #5****1. Outcome Measures**

Number of program participants pursuing opportunities to meet environmental regulations and programs on syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	400	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently no activity reported

**What has been done**

Currently no activity reported

**Results**

Currently no activity reported

**4. Associated Knowledge Areas**

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

**Outcome #6****1. Outcome Measures**

Number of program participants utilizing integrated nutrient management for sustainable agronomic production and environmental protection

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	400	300

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Overuse of nitrogen fertilizer is a common problem among limited -resource farmers. It is often applied at the expense of other nutrients.

**What has been done**

Workshops were conducted to educate farmers the importance of soil testing and fertilizer application methods. About 300 farmers attende the workshops.

**Results**

Most farmers indicated their williness to conduct soil test before planting.

**4. Associated Knowledge Areas**

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

**Outcome #7****1. Outcome Measures**

Number of program participants in integrated pest management for sustainable agronomic production and environmental protection

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	400	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Utilizing a variety of control methods, IPM reduces the likelihood of pests adapting to one particular strategy

**What has been done**

Workshops were conducted for limited-resource farmers on successful IPM strategy and program to effectively limit pest to acceptable levels.

**Results**

Farmers are willing to utilize this method of pest control to monitor and control pest in their fields.

**4. Associated Knowledge Areas**

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

**Outcome #8**

**1. Outcome Measures**

Number of program participants in waste management for sustainable agronomic production and environmental protection

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	400	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No activities reported

**What has been done**

Currently No activities reported

**Results**

Currently No activities reported

**4. Associated Knowledge Areas**

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

**Outcome #9****1. Outcome Measures**

Number of program participants in recycling methods for sustainable agronomic production and environmental protection

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	400	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No activities reported

**What has been done**

Currently No activities reported

**Results**

Currently No activities reported

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
102	Soil, Plant, Water, Nutrient Relationships

**Outcome #10****1. Outcome Measures**

Number of producers to have adopted new syrup crop production, management and marketing practices and technologies

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

<b>Year</b>	<b>Quantitative Target</b>	<b>Actual</b>
2007	120	20

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Syrup producers have passed down the art of cooking sugarcane syrup from generation to generation without the formal knowledge of modern techniques. This has caused a decline in the number of new producers adopting new syrup production research based techniques.

**What has been done**

Workshops, demonstrations and field days have been conducted to teach the benefits of new syrup production research based techniques.

**Results**

The farmers have adopted the new syrup production techniques which will improve their production efficiency and profit.

**4. Associated Knowledge Areas**

<b>KA Code</b>	<b>Knowledge Area</b>
102	Soil, Plant, Water, Nutrient Relationships
501	New and Improved Food Processing Technologies
604	Marketing and Distribution Practices

**Outcome #11****1. Outcome Measures**

Number of producers assessed potential environmental impacts of their operations and management decisions on syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension



**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No activities reported

**What has been done**

Currently No activities reported

**Results**

Currently No activities reported

**4. Associated Knowledge Areas**

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

**Outcome #12****1. Outcome Measures**

Number of producers responded to environmental and market variations through alternative crop or management strategies on syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently no activities reported

**What has been done**

Currently no activities reported

**Results**

Currently no activities reported

**4. Associated Knowledge Areas**

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

**Outcome #13**

**1. Outcome Measures**

Number of producers documented best management practices in their recommendations on syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Repeat

**What has been done**

Repeat

**Results**

Repeat

**4. Associated Knowledge Areas**

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

**Outcome #14****1. Outcome Measures**

Number of producers documented to have assessed potential environmental impacts of their operations on syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	20

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Decline in crop production due to poor management strategies.

**What has been done**

Workshops were conducted on cultural practices such as crop rotation, conservation tillage and nutrient management.

**Results**

Most farmers indicated that they are going to adopt crop rotation, conservation tillage and nutrient management to improve their syrup crop production.

**4. Associated Knowledge Areas**

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

**Outcome #15****1. Outcome Measures**

Number of producers developed and implemented nutrient management plans to meet production and performance goals and meet both State & Federal regulations on syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	20

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Overuse of nitrogen fertilizer is a common problem among limited -resource farmers. It is often applied at the expense of other nutrients.

**What has been done**

Workshops were conducted to educate farmers the importance of soil testing and fertilizer application methods. About 300 farmers attended the workshops.

**Results**

Most farmers indicated their willingness to conduct soil test before planting.

**4. Associated Knowledge Areas**

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

**Outcome #16****1. Outcome Measures**

The numbers of producers developed, implemented or modified current plans to meet production performance goals and meet both State & Federal regulations on syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Action Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	0

**3c. Qualitative Outcome or Impact Statement**

**Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

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

**Outcome #17****1. Outcome Measures**

The number of producers documented to have improved economic returns to agronomic profitability and vitality resulting from enhanced production management practices on syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Knowledge Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	20

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Syrup producers keep poor records of their production inputs and outputs. As a result of which they are not able to determine the profitability of the farm operation.

**What has been done**

A series of workshops conducted on record keeping techniques. The record keeping training module was developed by ASU Extension Program.

**Results**

20 farmers are using prescribed record keeping book and managing their inputs & outputs more efficiently. Now the farmers are well aware of their farm profitability.

**4. Associated Knowledge Areas**

KA Code	Knowledge Area
604	Marketing and Distribution Practices

**Outcome #18****1. Outcome Measures**

The number of producers documented to meet or exceed current environmental protection standards as a result of participating in relevant educational programs in syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

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

**Outcome #19****1. Outcome Measures**

The number of producers reported reduced environmental concerns for participating enterprises in syrup crop production and marketing

**2. Associated Institution Types**

•1890 Extension

**3a. Outcome Type:**

Change in Condition Outcome Measure

**3b. Quantitative Outcome**

Year	Quantitative Target	Actual
2007	60	0

**3c. Qualitative Outcome or Impact Statement****Issue (Who cares and Why)**

Currently No Activities Reported

**What has been done**

Currently No Activities Reported

**Results**

Currently No Activities Reported

**4. Associated Knowledge Areas**

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

**V(H). Planned Program (External Factors)**

External factors which affected outcomes

- Natural Disasters (drought, weather extremes, etc.)
- Economy
- Competing Public priorities
- Competing Programmatic Challenges
- Other (Lack of Experienced Personnel)

**Brief Explanation**

The planned program was affected adversely due to the retirement of the existing experienced Agronomy Specialist. Therefore the replacement will need a year to adapt to the execution of the planned program in order to achieve the expected outcomes.

**V(l). Planned Program (Evaluation Studies and Data Collection)****1. Evaluation Studies Planned**

- Before-After (before and after program)
- Comparison between locales where the program operates and sites without program intervention

**Evaluation Results**

Collecting soil sample before planting crops were used to determine nutrient requirements for crop evaluation. Limited resource producer completed questionnaires in order to determine crop production problems. Farm visits were conducted to identify major crop varieties of interests and to gather document data for future interpretation. Document the impact of all field management practices would be observed and findings reported.

Evaluation studies are measured by the extent to which the farmers are diversifying to alternative crop production through sustainable agronomic production practices. Comparison of crop performances under improved production practices with those produced under the conventional production practices. Comparisons of quality crops produced and additional income generated by the farmers who adopted such resources/program against those still using conventional production practices.

**Key Items of Evaluation**