

**Oklahoma Agricultural Experiment Station  
Oklahoma State University  
Plan of Work Update for Federal Fiscal Year 2005-2006**

**Introduction**

This document contains the update for FY05-06 Plan of Work (POW) for the Oklahoma Agricultural Experiment Station (OAES) that is part of the Division of Agricultural Sciences and Natural Resources at Oklahoma State University. The POW Update is a brief summary of significant modifications to the OAES FY2000-2004 POW as required by the Agricultural Research, Extension and Education Reform Act of 1998, and as specified under FY2005-2006 Plan of Work Update (February 11, 2004) to the USDA's "Guidelines for State Plans of Work for Agricultural Research and Extension Formula Funds". It is based on the Division's revised (draft 2004) Strategic Plan and public/stakeholder input.

This POW does not include the College of Agricultural Sciences and Natural Resources academic programs plan, but was developed in coordination with the Oklahoma Cooperative Extension Service (OCES).

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**Planned Programs**

In large part, the programs outlined in the FY2000-2004 POW will be continued. However, considerable downsizing of personnel due to budget reductions has necessitated a new identification of high priority areas and appropriate programming. In addition, new developments such as scientific and technical advances, changing social frameworks, changing government agricultural programs, homeland and food security issues, and evolving environmental issues provided impetus for priority setting under a new OAES/Division Strategic Plan. Following a strategic planning process, twenty-eight initiatives were identified for team research, extension, or research-extension efforts. Each initiative will have a set of two to seven thrusts which identify the major issue/scientific priority areas. Programs and projects are then identified to address the needs and opportunities in these priority thrusts.

For this Update, the twenty-three initiatives with Research implications will be listed according to the CSREES Goal that best represents the issues and projected programming. In some cases, a few initiatives will have programs that could be in more than one CSREES Goal or contain some programs aligned with one goal and some with another.

**CSREES Goal 1: An agricultural system that is highly competitive in the global economy**

Cattle and Forages Initiative  
Crop Management Initiative  
Farm and Agribusiness Management Initiative  
Wheat – Multiple Uses Initiative  
Cattle Receiving and Feeding Initiative  
Commercial Horticulture Initiative  
Ecosystem Management, Conservation and Restoration Initiative  
Food Processing Initiative  
Integrated Pest Management Initiative  
Oklahoma Mesonet Initiative  
Sensor-Based Technology Initiative  
Stored Products Initiative  
Turf Production Initiative

**CSREES Goal 2: A safe and secure food and fiber system.**

Food Safety Initiative  
Homeland Security Initiative

**CSREES Goal 3: A healthy, well-nourished population.**

Human Nutrition and Health Initiative

**CSREES Goal 4: Greater harmony between agriculture and the environment.**

Environmental Quality and Waste Management Initiative  
Natural Resource Education Initiative

**CSREES Goal 5: Enhanced economic opportunity and quality of life for Americans.**

Community Resource and Economic Development Initiative  
Consumer Horticulture and Urban Forestry Initiative  
Family Economic Wellbeing Initiative  
Family Resiliency Initiative  
4-H Youth Development Initiative

**Examples of Initiative Thrusts**

In order to keep this update to the appropriate length, thrusts related to all initiatives will not be enumerated. However, for illustration purposes, following are some examples of initiatives and the related thrusts.

Cattle and Forages Initiative  
    Cattle breeding and reproduction  
    Nutrition, health, and herd management  
    Quality Assurance  
    Forage selection, production and management  
    Hay production and Storage  
    Marketing of livestock/hay

Crop Management Initiative (alfalfa, cotton, peanuts, sorghum, soybeans, and vegetables)  
    Soil fertility and Management  
    Crop selection and production practices

- Crop protection and pest management
- Post harvest handling and storage
- Marketing
- Value-added products

Human Nutrition and Health Initiative

- Diabetes
- Consumer food safety
- Heart disease/death rate
- Obesity – overweight
- Poor dietary intakes

Environmental Quality and Waste Management

- Confined animal waste
- Industrial and municipal waste
- Nutrient management
- Surface and ground water quality
- Air quality
- Erosion, sedimentation and riparian management

Community Resource and Economic Development

- Agricultural enterprise vitality and value-added products
- Manufacturing
- Recreation, tourism, home-based and micro enterprises
- Community strategic development
- Community infrastructure
- Local government efficiency
- Leadership for community development and engagement

**Allocated Resources**

Below is the estimate of fiscal resources (\$'s x 1,000) from federal and state to conduct initiatives under each CSREES goal for FY 2005 and FY 2006. Also shown is the estimate of scientist years (SY).

<b><u>CSREES Goal 1</u></b>	<b><u>FY2005</u></b>	<b><u>FY2006</u></b>
Fiscal Resources	26,440	27,762
SY	73.0	73.0
<b><u>CSREES Goal 2</u></b>	<b><u>FY2005</u></b>	<b><u>FY2006</u></b>
Fiscal Resources	1,859	1,952
SY	4.2	4.2
<b><u>CSREES Goal 3</u></b>	<b><u>FY2005</u></b>	<b><u>FY2006</u></b>
Fiscal Resources	915	961
SY	1.9	1.9
<b><u>CSREES Goal 4</u></b>	<b><u>FY2005</u></b>	<b><u>FY2006</u></b>
Fiscal Resources	6,343	6,660
SY	15.6	15.6
<b><u>CSREES Goal 5</u></b>	<b><u>FY2005</u></b>	<b><u>FY2006</u></b>
Fiscal Resources	1,582	1,661
SY	5.3	5.3

### **Stakeholder Input Process**

This process remains almost the same as in POW FY2000-2004. However, additional input sessions from commodity groups and other clientele will be solicited as we embark on establishing the initiative teams, objectives, and time-line for effort for each of the emphasis areas. This will allow for program adjustments, partner building and priority setting. It is expected that follow up to these will continue throughout the duration of the established initiative. It is also expected that revisions will be made to local, regional, and area advisory systems. Likewise it is expected that each Initiative Team will have several methods and groups to provide grassroots level input to the priorities and efforts of the team.

### **Program Review Process**

No dramatic changes are projected in the program review process. We do expect Initiative Teams to provide an additional level of program review.

### **Multi-State Research Activities**

Multi-State Research Activities are expected to continue to new ones evolve as priority issues arise and new teams are formed across states, etc. Efforts will be more difficult as FTE numbers have shrunk significantly due to retirement and attrition between FY02 and FY04 and as budget allocations have shrunk. Efforts will continue to be reported in the Annual Report each year. Twenty-five percent or more of allocated Hatch funds continue to be expended as Multi-State Research Funds. These funds are expended on the following Oklahoma Agricultural Experiment Station Projects.

OAES Proj #	Multi-State #
1438	NC-107
1890	NC-170
2233	W-170
2257	W-190
2389	NRSP-8
2416	S-065
2419	S-291
2421	NC-226
2423	S-294
2424	S-293
2454	S-302
2455	S-303
2460	S-297
2479	S-1004
2537	S-1016
2547	S-009
2554	NC-1015

### **Integrated Research-Extension Activities**

These are expected to continue to evolve. There will be a growing emphasis on the initiatives and several of the initiatives define strong joint research and extension programs. Efforts to increase will be more difficult as FTE's have decreased significantly due to retirement and attrition between FY02 and FY04 as budget allocations shrank. Efforts will continue to be reported in the Annual Report each year.

### **Certification:**

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Dr. Edwin L. Miller, Interim Dean and Director  
Oklahoma Agricultural Experiment Station  
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Date