

FY2005 and FY2006

Plan of Work Update

Kentucky

University of Kentucky
Kentucky State University



Cooperative Extension Service (1862)
Agricultural Experiment Station (1862)
Cooperative Extension Program (1890)
Agricultural Research Programs (1890)

Overview

Since the submission of the original FY00-04 Plan of Work, the University of Kentucky and Kentucky State University have continued to fortify the hallmark partnership that has allowed them to become a catalyst for the improving social, economic, and environmental conditions which exist in the Commonwealth. Similarly, already closely integrated programs of instruction, Extension, and research are exploring new ways of working together for the benefit of Kentuckians.

This Plan of Work Update provides Kentucky's two land grant institutions with an opportunity to reaffirm their commitment to the planned programs articulated in the FY00-04 Plans of Work while simultaneously making a public commitment to engage in new arenas of scholarship and outreach which responds to emerging needs.

We believe Kentucky is well positioned for the development of a comprehensive Plan of Work for FY07-FY11 in accordance with the guidance provided by CSREES. We believe the time frame for development of the new Plan of Work will allow for a more complete and systematic consideration of both internal and external factors which will significantly influence the nature and scope of the research and education programs at the two institutions. A few of these factors are identified below.

- Integration of the former College of Human Environmental Sciences into the University of Kentucky College of Agriculture as a School of Human Environmental Sciences.
- The anticipated positive impact of appropriations from the state legislature to support research and Extension activity through Kentucky State University.
- New strategic plans for the University of Kentucky and the College of Agriculture.
- A new organizational structure for Kentucky Cooperative Extension and the impact of the new structure on Extension's ability to respond quickly to emerging needs.
- A strengthened outreach agenda at the University of Kentucky and the impacts of several newly-developed partnerships between the College of Agriculture and other colleges on campus.
- The growth and maturation of several external partnerships with state government and the business community, including the Natural Products Alliance supporting a new business cluster in Kentucky.

In lieu of the option of developing a new plan of work at this time, we submit the following as a reaffirmation of our intent to continue work on the planned programs articulated in the FY00-04 Plans of Work. Where appropriate we identify those areas of research or programming that we anticipate will receive increased attention over the final two years of this planning period.

Plan of Work Update for CSREES Goal 1

An agricultural system that is highly competitive in the global economy. Through research and education, empower the agricultural system with knowledge that will improve competitiveness in domestic production, processing, and marketing.

Sustained and Emerging Program Thrusts

Research and Extension programs at the University of Kentucky and Kentucky State University remain committed to the development of sustainable food, agricultural, and natural resources systems. The planned programs articulated in the FY00–04 Plan of Work continue to be representative of the nature of Kentucky’s programming related to CSREES Goal 1. Special emphasis will be placed on the following program thrusts during the period of time covered by the plan of work update.

- Supporting the transition from a tobacco-dependent agricultural economy to one which is more diversified and sustainable. In particular, research at KSU will focus on development of such alternative crops as pawpaws, gooseberries, currents, and honey as part of a diversified mix appropriate for small farmers.
- Exploring new options for marketing agricultural products including direct marketing, farmers markets, and roadside stands. Both institutions will partner with the Kentucky Department of Agriculture to promote Kentucky products.
- Discover ways agricultural products can be modified to better align with consumer preferences.
- Support the adoption of precision agriculture technologies to increase efficiency in agricultural production.
- Conduct research related to the development of bio-based products and fuels.
- KSU research will continue work on development of alternative aquaculture species such as freshwater prawns, paddlefish, channel catfish, Australian red claw crayfish, small mouth bass, and tilapia.
- A joint research/extension position at KSU (supported by state matching funds) has been created to service needs of goat and small ruminant entrepreneurs.

Fiscal and Human Resources

Institution	FY2005 Federal Funds	FY2006 Federal Funds	FY2005 FTEs	FY2006 FTEs
University of Kentucky (Extension)	\$2,000,000	\$2,000,000	150	150
University of Kentucky (Research)	\$2,500,000	\$2,500,000	50	50
Kentucky State University (Extension)	\$425,000	\$425,000	29.5	29.5
Kentucky State University (Research)	\$687,743	\$678,743	11.7	11.7

Plan of Work Update for CSREES Goal 2

A safe, secure, food & fiber system. To ensure an adequate food and fiber supply and food safety through improved science based detection, surveillance, prevention and education.

Sustained and Emerging Program Thrusts

Research and Extension programs at the University of Kentucky and Kentucky State University will continue ongoing efforts to ensure the safety and security of the food system. The planned programs articulated in the FY00–04 Plan of Work continue to be representative of the nature of Kentucky’s programming related to CSREES Goal 2. Special emphasis will be placed on the following program thrusts during the period of time covered by the plan of work update.

- Conduct research designed to ensure consumer confidence in genetically modified foods.
- Educate home-based microprocessors and food manufacturers in the use of safe food handling, processing, and storage practices.
- Educate producers of practices which ensure the safety of food products.
- Encourage the adoption of safe food handling, preparation, and storage practices in the home.
- Continually monitor existing and emerging threats to the nation’s food supply.

Fiscal and Human Resources

Institution	FY2005 Federal Funds	FY2006 Federal Funds	FY2005 FTEs	FY2006 FTEs
University of Kentucky (Extension)	\$625,000	\$625,000	47	47
University of Kentucky (Research)	\$580,000	\$580,000	4.5	4.5
Kentucky State University (Extension)	\$102,000	\$102,000	3.7	3.7
Kentucky State University (Research)	0	0	0	0

Plan of Work Update for CSREES Goal 3

A healthy, well-nourished population. Through research and education on nutrition and development of more nutritious foods, enable people to make health promoting choices.

Sustained and Emerging Program Thrusts

Research and Extension programs at the University of Kentucky and Kentucky State University will aggressively work to increase the health status of Kentuckians through a program of relevant research and collaborative outreach. The planned programs articulated in the FY00–04 Plan of Work continue to be representative of the nature of Kentucky’s programming related to CSREES Goal 3. Special emphasis will be placed on the following program thrusts during the period of time covered by the plan of work update.

- Reduce chronic disease in Kentucky through expanded on-campus partnerships and the development of local health coalitions. In Particular, KSU research will focus on functional foods which improve human health, calcium metabolism and bone health, and determining the effect of human exposure to pesticides.
- Develop, pilot, and disseminate new curricula that address the health maintenance needs of Kentuckians.
- Generate new knowledge related to human nutrition.
- Combat obesity and other effects of sedentary lifestyles through programs which encourage physical activity. Kentucky State University will use new state matching funds to expand programming related to obesity.
- Educate Kentuckians regarding healthy food choices.
- Ensure that Kentucky’s children eat healthy, well-balanced meals and snacks.
- Evaluate the genetic toxicology and biosafety of nutraceuticals and antimicrobial agents used in the management of human health.

Fiscal and Human Resources

Institution	FY2005 Federal Funds	FY2006 Federal Funds	FY2005 FTEs	FY2006 FTEs
University of Kentucky (Extension)	\$968,000	\$968,000	72	72
University of Kentucky (Research)	\$684,000	\$684,000	4	4
Kentucky State University (Extension)	\$105,000	\$105,000	4.2	4.2
Kentucky State University (Research)	\$372,000	\$372,000	8	10

Plan of Work Update for CSREES Goal 4

Greater harmony between agriculture and the environment. Enhance the quality of the environment through better understanding of and building on agriculture's and forestry's links with soil, water, air, and biotic resources.

Sustained and Emerging Program Thrusts

Research and Extension programs at the University of Kentucky and Kentucky State University are committed to ensuring the environmental sustainability of agricultural production and forest harvesting practices. Kentucky State University's research farm continues to model how organic and environmentally-friendly production practices can be incorporated into small farm operations. The planned programs articulated in the FY00–04 Plan of Work continue to be representative of the nature of Kentucky's programming related to CSREES Goal 4. Special emphasis will be placed on the following program thrusts during the period of time covered by the plan of work update.

- Support private landowners in making decisions regarding management of forested lands.
- Train loggers and other timber harvesting professionals in the use of safe, environmentally-friendly timber extraction practices.
- Support the development of industries and small businesses which add value to harvested forest crops.
- Conduct research and outreach programs focusing on indoor air quality.
- Conduct research into organic/sustainable methods of vegetable crop production with new state matching funds to Kentucky State University.
- Reduce the use of pesticides on the environment through the exploration of biological controls such as the use of natural plant products to defend plants against pests.
- Promote the use of practices which ensure a safe water supply.
- A new position for an aquaculture water quality engineer will be established with new state matching funds to Kentucky State University.

Fiscal and Human Resources

Institution	FY2005 Federal Funds	FY2006 Federal Funds	FY2005 FTEs	FY2006 FTEs
University of Kentucky (Extension)	\$578,000	\$578,000	43	43
University of Kentucky (Research)	\$1,300,000	\$1,300,000	16	16
Kentucky State University (Extension)	\$103,000	\$103,000	4	4
Kentucky State University (Research)	\$418,785	\$418,785	10.5	12.5

Plan of Work Update for CSREES Goal 5

Enhanced economic opportunity and quality of life for Americans. Empower people and communities, through research-based information and education, to address economic and social challenges facing our youth, families, and communities.

Sustained and Emerging Program Thrusts

Research and Extension programs at the University of Kentucky and Kentucky State University will remain committed to building the human capital needed for the United States to compete in an information-aged global economy. The planned programs articulated in the FY00–04 Plan of Work continue to be representative of the nature of Kentucky’s programming related to CSREES Goal 5. Special emphasis will be placed on the following program thrusts during the period of time covered by the plan of work update.

- Fostering a culture of innovation and entrepreneurship within the business community.
- Developing skills in youth and adults that allow them to become catalysts for positive community change.
- Provide young people and adults with the skills needed to make informed decisions about money.
- Utilize cutting-edge research in child development in programming related to parenting, child care, and youth development.
- Help young people acquire the life skills to successfully navigate the transition to adulthood.

Fiscal and Human Resources

Institution	FY2005 Federal Funds	FY2006 Federal Funds	FY2005 FTEs	FY2006 FTEs
University of Kentucky (Extension)	\$3,561,000	\$3,561,000	265	265
University of Kentucky (Research)	\$105,000	105,000	5	5
Kentucky State University (Extension)	\$137,000	\$137,000	7.5	7.5
Kentucky State University (Research)	0	0	2	4