

PLAN OF WORK

Iowa State University

College of Agriculture

Iowa Agriculture and Home Economics Experiment Station

Cooperative Extension Service

**Update for
Federal Fiscal Years**

2005-2006

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Introduction

This FY2005–FY2006 update to the Iowa State University Plan of Work incorporates previous updates and has been revised to consist of 24 programs in research and 26 programs in extension.

One significant change is the allocation of resources. Significant budget cuts in appropriations from the State of Iowa have impacted research capacity, and the numbers provided for FY2004 through FY2006 reflect the new reality, in terms of both human and fiscal measures.

For further clarification on the Plan of Work or program content, contact either

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I. Planned Programs:

	Goal 1	Goal 2	Goal 3	Goal 4	Goal 5
1862 Research	Programs 1–15	Programs 16 and 17	Program 18	Programs 19–26	Programs 27–31
1862 Extension	Programs 101–121, 142, and 146	Program 330	Programs 145 and 330	Programs 142, 143, 146, and 147	Programs 200–320 and 340–460

1862 Research

GOAL 1: An Agricultural System That is Highly Competitive in the Global Economy.

Program 1. Food Crops – updated in 2001

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	4.4	451,604
FY05	4.4	451,604
FY06	4.4	451,604

Program 2. Forest Resource Enhancement

This is a McIntire-Stennis program, and will no longer be included in the Plan of Work.

Program 3. Fundamental Plant Sciences

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	13.5	1,326,484
FY05	13.5	1,326,484
FY06	13.5	1,326,484

Program 4. Plant Germplasm

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	6.0	1,572,310
FY05	6.0	1,572,310
FY06	6.0	1,572,310

Program 5. Soil Management Strategies for Iowa

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	5.5	951,735
FY05	5.5	951,735
FY06	5.5	951,735

Program 6. Precision Agriculture

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	1.0	128,707
FY05	1.0	128,707
FY06	1.0	128,707

Program 7. Industry

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	4.3	618,333
FY05	4.3	618,333
FY06	4.3	618,333

Program 8. Improved Grazing Systems for Beef Cattle Production and Enhancement of Environmental Quality

The work described in this program is now being performed under multistate project NC-225, and will be reported on under the Hatch multistate reporting procedures. This was reported in our 2001 Update.

Program 9. Understanding the Physiological Basis of Animal Reproduction, Growth and Well Being

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	6.9	1,163,749
FY05	6.9	1,163,749
FY06	6.9	1,163,749

Program 10. Genetic Enhancement of Agriculturally Important Animals

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	6.9	1,417,963
FY05	6.9	1,417,963
FY06	6.9	1,417,963

Program 11. Develop and Integrate Nutritional Knowledge to Enhance Animal Production

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	5.8	1,481,589
FY05	5.8	1,481,589
FY06	5.8	1,481,589

Program 12. Potential of Alternative Livestock for Iowa's Economic Enhancement

Program 12 has been eliminated and the resources reallocated.

Program 13. International Economic Competitiveness

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	0.4	63,986
FY05	0.4	63,986
FY06	0.4	63,986

Program 14. Agricultural Risk and Financial Management – updated in 2002

Programs 14 (1862 Research – Agricultural Risk Management) and 104 (1862 Extension – Agricultural Financial Management) have been revised as an integrated research/extension program to more accurately reflect the true nature of this effort. All resources of both former programs are directed to this new, integrated Agricultural Risk and Financial Management program.

Allocated Resources:

Year	SYs	State and Hatch funds	State and Smith-Lever funds
FY04	27.3	459,556	1,180,353
FY05	22.2	459,556	1,003,300
FY06	22.2	459,556	1,003,300

Program 15. Agricultural Information Technology

Program has been eliminated and resources reallocated.

GOAL 1: Impacts – Revised

Greater profitability and competitiveness through the development and dissemination of information on new or improved methods, practices, and products that will result in

- reduced crop and postharvest product losses,
- more efficient use of agricultural chemicals,
- enhanced producer profitability,
- new products and applications, and
- a better understanding and adoption of appropriate risk management practices.

GOAL 2: A Safe and Secure Food and Fiber System.

Program 16. Improving the Quality and Safety of Muscle Foods

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	4.2	1,189,311
FY05	4.2	1,189,311
FY06	4.2	1,189,311

Program 17. Reduction of Physical, Chemical, and Biological Hazards Introduced into Foods

Program 17 has been eliminated. It is a redundant program (duplicative of Program 16). The resources have been reallocated to Program 16.

GOAL 2: Impacts – Revised

A more safe and secure food and fiber system due through the development and dissemination of information on new or improved methods, practices, and products that will result in

- improved quality of fresh and processed meat products,
- greater public understanding of the principles of food safety and quality, and
- greater understanding of chemical, physical, and biological hazards to food safety.

GOAL 3: A Healthy, Well-Nourished Population.

Program 18. Improving Human Foods: Functionality, Selection and Nutrition – updated in 2001

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	5.2	848,174
FY05	5.2	848,174
FY06	5.2	848,174

GOAL 3: Impacts – Revised

A healthy and well-nourished population through the development and dissemination of information on new or improved methods, practices, and products that will result in:

- increase in public awareness of health promoting dietary and feeding behaviors, and
- increase in research information disseminated through ISU extension project 330 ((Nutrition: choices for healthy FY 2000-2004).

GOAL 4: An Agricultural System Which Protects Natural Resources and the Environment.

Program 19. Sustainable Agriculture

Program 19 was eliminated in 2001. It is a redundant program (duplicative of Program 20: Sustainable/Organic Agriculture, and Program 21, Sustainable and Environmentally Safe Management of Soil Resources). The resources have been reallocated to Programs 20 and 21.

Program 20. Sustainable/Organic Agriculture

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	1.1	20,495
FY05	1.1	20,495
FY06	1.1	20,495

Program 21. Sustainable and Environmentally Safe Management of Soil Resources

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	10.7	1,082,172
FY05	10.7	1,082,172
FY06	10.7	1,082,172

Program 22. Integrated Pest Management

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	3.6	503,107
FY05	3.6	503,107
FY06	3.6	503,107

Program 23. Animal Waste Management

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	2.3	220,245
FY05	2.3	220,245
FY06	2.3	220,245

Program 24. Improving Water Resources Management in an Agroecosystem

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	2.6	323,799
FY05	2.6	323,799
FY06	2.6	323,799

Program 25. Interaction of Biosystems with Weather and Climate

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	1.6	128,066
FY05	1.6	128,066
FY06	1.6	128,066

Program 26. Improving Environmental Quality in a Changing Landscape

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	7.2	623,193
FY05	7.2	623,193
FY06	7.2	623,193

GOAL 4: Impacts – Revised

An agricultural system which protects natural resources and the environment through the development and dissemination of information on new or improved methods, practices, and products that will result in

- increased utilization of integrated pest management, sustainable, and organic agricultural practices,
- adoption of better manure management practices, and
- increased wetland restoration and improved riparian management on public and private lands.

GOAL 5: Enhanced economic opportunity and quality of life for Americans.

Program 27. Rural Development

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	11.8	1,660,870

FY05	11.8	1,660,870
FY06	11.8	1,660,870

Program 28. Fiber-Related Products (Textiles and Apparel) and Businesses for Protection, Social, and Economic Enhancement

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	0.7	118,090
FY05	0.7	118,090
FY06	0.7	118,090

Program 29. Value Added Agriculture

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	8.1	1,040,862
FY05	8.1	1,040,862
FY06	8.1	1,040,862

Program 30. Quality of Life

Allocated Resources:

Year	SYs	State and Hatch funds
FY04	2.2	322,112
FY05	2.2	322,112
FY06	2.2	322,112

Program 31. Fundamental Social Sciences

Program 31 was eliminated in 2001. The resources have been reallocated to Program 27: Rural Development.

GOAL 5: Impacts – Revised

Enhanced economic opportunity and quality of life through the development and dissemination of information on new or improved methods, practices, and products that will result in

- communities supporting development projects; increased capacity of communities, families, and individuals to improve their own quality of life,

- improved cooperation between the university, state and federal agencies, industries and communities to transfer technology that will lead to industrial growth and rural development, and
- enhanced education of decision-makers at local, regional, and state levels; those initiating development projects; and those setting policies.

1862 Research: Summary of Allocated Resources*:

Funding Source	FY 99 (Base)	FY 00	FY 01	FY 02	FY 03	FY 04	FY05	FY06
Goal 1								
Hatch \$	2,107,553	2,149,704	2,192,698	2,236,552	2,281,283	2,784,093	2,784,093	2,784,093
State \$	7,894,176	8,052,060	8,213,101	8,377,363	8,544,910	6,851,923	6,851,923	6,851,923
Total \$	10,001,729	10,201,764	10,405,799	10,613,915	10,826,193	9,636,013	9,636,013	9,636,013
SYs	62.6	63.9	65.1	66.4	67.8	58.9	58.9	58.9
Goal 2								
Hatch \$	15,175	15,478	15,788	16,103	16,425	448,916	448,916	448,916
State \$	397,978	405,938	414,056	422,337	430,784	740,395	740,395	740,395
Total \$	413,153	421,416	429,844	438,441	447,210	1,189,311	1,189,311	1,189,311
SYs	4.3	4.4	4.5	4.6	4.7	4.2	4.2	4.2
Goal 3								
Hatch \$	234,901	239,599	244,391	249,279	254,264	275,797	275,797	275,797
State \$	533,316	543,983	554,862	565,959	577,279	400,302	400,302	400,302
Total \$	768,217	783,581	799,253	815,238	831,543	676,099	676,099	676,099
SYs	4.7	4.8	4.9	5.0	5.1	3.1	3.1	3.1
Goal 4								
Hatch \$	1,008,921	1,029,100	1,049,682	1,070,675	1,092,089	517,911	517,911	517,911
State \$	3,191,420	3,255,248	3,320,353	3,386,760	3,454,495	2,383,166	2,383,166	2,383,166
Total \$	4,200,341	4,284,348	4,370,035	4,457,436	4,546,584	2,901,077	2,901,077	2,901,077
SYs	37.2	37.9	38.7	39.5	40.3	29.1	29.1	29.1
Goal5								
Hatch \$	752,711	767,765	783,120	798,783	814,758	641,003	641,003	641,003
State \$	2,215,696	2,260,010	2,305,210	2,351,314	2,398,341	2,500,931	2,500,931	2,500,931
Total \$	2,968,407	3,027,775	3,088,330	3,150,097	3,213,099	3,141,934	3,141,934	3,141,934
SYs	29.2	29.8	30.4	31.0	31.6	22.8	22.8	22.8
Annual								
Hatch \$	4,119,260	4,201,645	4,285,678	4,371,392	4,458,820	4,667,720	4,667,720	4,667,720
State \$	14,232,586	14,517,238	14,807,583	15,103,734	15,405,809	12,876,717	12,876,717	12,876,717
Total \$	18,351,847	18,718,883	19,093,261	19,475,126	19,864,629	17,544,437	17,544,437	17,544,437
SYs	138.0	140.8	143.6	146.4	149.4	118.1	118.1	118.1

* Note that due to the strict criteria of auditing procedures that require traceable documentation, only formula Hatch funds plus approximately 50 percent of state allocations to these research programs are being reported.

1862 Extension

GOAL 1: An Agricultural System That is Highly Competitive in the Global Economy.

**Program 101. Strategic Advantage: Management Development for Iowa's Farm Businesses
– updated in 2002**

Allocated Resources:

Year	SYs	State and Federal funds
FY04	2.3	202,418
FY05	2.3	202,418
FY06	2.3	202,418

Program 103. Crop Nutrient Management – updated in 2001

Allocated Resources:

Year	SYs	State and Federal funds
FY04	7.4	522,243
FY05	7.4	522,243
FY06	7.4	522,243

Program 104. Agricultural Financial Management – updated in 2002

(see program 14 under 1862 Research)

Program 106. Commercial Greens Industry

Allocated Resources:

Year	SYs	State and Federal funds
FY04	9.2	552,216
FY05	9.2	552,216
FY06	9.2	552,216

Program 107. Iowa Beef Center – updated in 2001

Allocated Resources:

Year	SYs	State and Federal funds
FY04	13.5	1,398,836
FY05	13.5	1,398,836
FY06	13.5	1,398,836

Program 108. Iowa Pork Industry Center

Allocated Resources:

Year	SYs	State and Federal funds
FY04	10.8	993,409
FY05	10.8	993,409
FY06	10.8	993,409

Program 109. Strengthening Iowa's Dairy Industry

Allocated Resources:

Year	SYs	State and Federal funds
FY04	12.8	917,095
FY05	12.8	917,095
FY06	12.8	917,095

Program 121. Value-Added Agriculture – updated in 2003

Allocated Resources:

Year	SYs	State and Federal funds
FY04	6	911,970
FY05	6	911,970
FY06	6	911,970

Program 142. Integrated Pest and Crop Management (IPM/ICM)

Allocated Resources:

Year	SYs	State and Federal funds
FY04	22.3	3,194,611
FY05	22.3	3,194,611
FY06	22.3	3,194,611

Program 146. Consumer Horticulture Program

Allocated Resources:

Year	SYs	State and Federal funds
FY04	8.3	565,974
FY05	8.3	565,974
FY06	8.3	565,974

GOAL 2: A Safe and Secure Food and Fiber System.

Program 330. Nutrition: Choices for Healthy FY 2000–2004

Additions to the program:

Statement of Issues:

In Iowa, there are over 400 small food processors. These processors constitute a critical asset to Iowa and the country in providing a safe and wholesome food supply. The vulnerability of these food processors to intentional adulteration of their product by aggressors is a profound concern. The majority of these processors do not have an understanding of quality assurance programs to mitigate food safety and security issues.

Annual Performance Goals:

- 100 food processors will institute improved security measures at their processing plants.
- 100 food processors will institute improved quality assurance programs.

Output Indicators:

of food safety and security programs provided to food processors.

Outcome indicators:

of food processors that actually institute improved quality assurance and security plans.

Allocated Resources:

Year	SYs	State and Federal funds
FY04	15.28	1,442,188
FY05	15.28	1,442,188
FY06	15.28	1,442,188

GOAL 3: A Healthy, Well-Nourished Population.

Program 145. Farm Safety

Allocated Resources:

Year	SYs	State and Federal funds
FY04	1.5	148,348
FY05	1.5	148,348
FY06	1.5	148,348

Program 330. Nutrition: Choices for Healthy FY 2000–2004 (see under goal 2)

GOAL 4: An Agricultural System Which Protects Natural Resources and the Environment.

Program 142. Integrated Pest and Crop Management (IPM/ICM) (see under goal 1)

Program 143. Pesticide Applicator Training

Allocated Resources:

Year	SYs	State and Federal funds
FY04	1.5	577,632
FY05	1.5	577,632
FY06	1.5	577,632

Program 146. Consumer Horticulture Program (see under goal 1)

Program 147. Sustainable Agriculture

Allocated Resources:

Year	SYs	State and Federal funds
FY04	2.3	246,596
FY05	2.3	246,596
FY06	2.3	246,596

Program 150. Environmental Stewardship

Statement of Issue:

Management of all natural resources, including water, land, and air, within the constraints of farm production systems and communities are prerequisite for sound environmental stewardship. Inappropriate management of natural resources can lead to potential environmental degradation. The negative environmental consequences of nitrogen and phosphorus on water quality are directly linked to land and water management, where soil erosion continues to be the major contributor to water pollution in the state of Iowa. Equally important are the air quality concerns, particularly emissions from confined animal facilities. Uncertainties of health impacts related to exposures of agricultural odors and emissions of other volatile gases are a prominent concern in rural parts of Iowa, and in urban Iowa, too. Odor, including nitrogen (NH₃, NO_x, N₂O), methane, and hydrogen sulfide, are most pertinent to air resources. The preservation of natural resources (land, water, and air) is critical for healthy Iowa communities, including wildlife, energy utilization, and water quality improvement. Development of strategies and educational programs to address utilization and preservation of these natural resources will help Iowans better understand and practice environmental stewardship.

Performance Goals:

- Adoption of conservation practices by crop and livestock producers, agronomists, agency personnel, and conservation planners to promote residue management and soil erosion control to minimize sediment transport to water bodies
- Identify site-specific strategies and facilitate the education and implementation of these strategies in order to improve water and air quality and address related concerns
- Increase the understanding of water quality issues and related adverse consequences of poor stewardship practices
- Understand and evaluate the economic impact of management of natural resources
- Influence change in behavior, attitudes, and practices of Iowans towards the use and protection of natural resources

Output Indicators:

- Development and execution of educational programs and curricula that will address land, water, and air quality concerns for rural and urban communities
- Develop and implement training programs for certified Crop Advisors, agronomists and others agriculture professionals who deal with crop production and environmental issues
- Produce, update or revise handbooks, newsletters, and bulletins as appropriate
- Hold workshops, field days, farm/field visits, and ICN (Iowa Communications Network) sessions as appropriate
- Track web site hits and publication distribution
- Development of strategies to increase community (citizen) involvement, and use these strategies while working with 4 new watersheds or sub watersheds each year on environmental stewardship projects.
- The Plan of Work committee updates, improves and focuses goals continually.

Outcome Indicators:

- Adoption of soil conservation practices such as no-till, strip-tillage, buffer strips, wetlands, etc.

- Implementation of the phosphorus index by crop producers in managing phosphorus application
- Implementation of best management practices designed for odor and emission control, including manure storage covers, soil injection of manure, and feeding strategies
- Increased participation in water quality improvement projects, including new projects in 4 new watersheds/sub watersheds each year.
- Document incorporation of environmental stewardship teaching in classroom curricula
- Document measurable improvements in water quality as a result of long-term monitoring studies

Key Program Components:

Educational Meetings and Activities

- On-going ISU Extension air quality, watershed planning, soil conservation and water quality programming
- CCA training, community education, crop producer programming, and conservation education

On-farm Activities

- One-on-one on-farm visits
- On-farm odor emission control and erosion control demonstrations—evaluation/demonstration of new management techniques, watershed projects, statewide nutrient and sediment management research/demonstration projects

Written Communications

- Newsletter articles, development of and inclusion in existing web sites, publications, printed and electronic mass media releases.

Internal and External Linkages:

Partners:

- Iowa State University College of Agriculture and appropriate departments and researchers
- Iowa State University Research and Demonstration Farms
- Natural Resources Conservation Service
- U.S. Geological Service
- Iowa Department of Natural Resources
- Iowa Pork Industry Center
- Iowa Beef Center
- Leopold Center
- Iowa Poultry Association
- Farm Bureau
- Agribusiness Association of Iowa
- Iowa Soybean Association
- Iowa Corn Growers Association
- Iowa Department of Agriculture and Land Stewardship
- Iowa Environmental Council
- Iowa Pork Producers Association
- Iowa Cattlemen's Association

- Independent Crop Consultants
- Certified Crop Advisors
- County and community planning committees

Target Audiences:

Crop and livestock producers and consultants, FFA Advisors, 4 -H leaders, high school educators, agribusiness professionals, conservation planners, policy makers, agency personnel, and community citizens.

All meetings and events are open and accessible to all. The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, political beliefs, sexual orientation, and marital or family status. (Not all prohibited bases apply to all programs.) Many materials can be made available in alternative formats for ADA clients. To file a complaint of discrimination, write USDA, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964.

Project Duration:

5 years

Plan for Resource Development:

Assess user appropriate fees for educational materials and programs to recover costs when needed. Contract educational meetings and materials for agency programs. Additional funding resources for educational programs, materials, and activities may be available from Iowa Department of Natural Resources grants, EPA 319 funds, USDA/EPA unified CAFO strategy, Leopold Center, Iowa Pork Industry Center, REAP, Agricultural Experiment Station, Agribusiness Association of Iowa, Farm Bureau grants to counties program, Iowa Legislature, commodity groups, United States Department of Agriculture/NRCS EQIP funding, USDA C and SREES 406 Water Quality Program.

Committee Members: Wendy Powers, co-chair; Joel DeJong, co-chair; Mahdi Al-Kaisi, Kapil Aurora, Pat Derdzinski, Mike Duffy, Tom Glanville, Judy Levings, Jim Pease, Jeff Zacharakis-Jutz

Allocated Resources:

Year	SYs	State and Federal funds
FY04	6	\$ 678,785
FY05	6	678,785
FY06	6	678,785

GOAL 5: Enhanced Economic Opportunity and Quality of Life for Americans.

Program 200. Building Community Capital

Statement of Issue:

Capital is used to create or enhance value. It is invested to provide additional value through returns to the investor. Community capital takes five forms: human, social, environmental, constructed physical, and financial. Many Iowa communities face a deficit in one or more of these capitals. According to needs identified through Iowa's county Extension education directors and reports from stakeholders in Iowa communities, priority capital development categories include social and human capital (citizen involvement and leadership), financial capital (economic development especially with regard to employment), and attraction and retention of residents, especially young people. The overall quality of life in the local community includes all the capitals and places emphasis upon environmental and cultural amenities, the quality of local jobs, and physical infrastructure (schools, roads, utilities, and technology). By building community capital communities become more place competitive and are more desirable locations for individuals and families to live and work.

Performance Goals:

Iowa communities will have the capacity to identify and develop their social, human, environmental, physical, and financial capital, utilize them to articulate a vision for their future, and take positive steps to implement community improvements. Specific goals relating to the development of each capital are:

- Social capital: A higher percentage of residents will become involved in a) community civic networks; b) enhanced citizen participation in community events, organizations and projects; and c) greater representation of citizens of diverse backgrounds involved in the community.
- Human capital: Community leadership skills will be enhanced through participation in leadership workshops and institutes; greater attention toward child care and increased quality and availability of care sites will occur; adult education opportunities for lifelong learning will be increased; and collaboration among local and regional providers and agencies on public health issues will be expanded.
- Environmental capital: Community environmental assets will be identified and maximized in planning decisions.
- Physical capital: Investment in constructed capital will be made, such as transportation and communications networks, and utilities.
- Financial capital: Retention and local investment of community wealth will be expanded with a goal of upgrading as well as expanding employment.

Output Indicators:

- A. Inservice training workshops will be developed and delivered to Extension staff and partnership agency staffs on community capitals, opportunity recognition, and the resource inventory approach to community development.

- B. In collaborate with external partners regarding community capital, deveopment training will be offered with an emphasis on organizational development and leadership, and community planning, design, and management.
- C. Inventories of local resources will be completed in communities throughout the state (asset mapping).
- D. At a community's request, Extension staff will assist the community to
 - 1) increase the percentage of citizens involved in community projects,
 - 2) increase the diversity (in gender, socio-economic class, age, length of residence, and ethnic, religious and racial background) of local organizational memberships, citizens involved in community projects and leadership roles,
 - 3) increase collaboration among local agencies as well as external agencies to promote regional development perspectives and efforts, and
 - 4) increase investment in the local financial resources.

Outcome Indicators:

For organizations and communities in which we work, there will be a strategic vision and plan to develop at least one of the five capitals and at least one tangible product, event, or change identified and implemented as a result.

Key Program Components:

- Resource inventory tools: The Office Social and Economic Trend Analysis, GIS-based natural resource, land use, physical/constructed inventories, asset mapping, economic input output models, retail analysis, landscape design, housing needs assessments, applied survey research, and specially designed leadership programming.
- Human and social capital building programs: Developing Dynamic Leaders, Nonprofit Management Academy, Municipal Clerks Academy, election officials training, governing cities leadership, Citizen Initiated Performance Assessment.
- Financial capital: Retail Trade Analysis, Take Charge.
- Analysis of and building physical and environmental capital: Landscape design, Community Viz and other visual approaches to community betterment.

Internal and External Linkages:

External:

- Governor's Strategic Plan (Iowa 2010)
- USDA—Rural Development, NRCS, RC&D
- Iowa State Association of Counties
- Iowa League of Cities
- Community Vitality Center
- Iowa Small Business Development Centers
- Iowa Rural Development Council
- United Ways
- Iowa Departments of Economic Development, Transportation, Agriculture and Land Stewardship, Natural Resources, Education, and Health.

Internal:

- County Extension Education Directors, other units of ISU Extension and the “seamless” university.

Target Audiences:

Local elected officials, current and emerging community leaders in voluntary roles, concerned citizens, staff and volunteer leaders for not-for-profit organizations, Extension and other rural development staff; emphasis on reaching diverse groups.

Project Duration:

5 years.

Plan for Resource Development:

We will continue to collaborate with the state of Iowa departments to offer joint programming, develop funded programs on the subjects of this plan, both competitive grants and contract-for-service. Additionally, we will explore internal monetary resources as contractors to develop and conduct training in the five community capital arenas. USDA-Rural Development, the Community Vitality Center, Iowa State Association of Counties, and Iowa League of Cities, among others, share components of our mission and provide financial resources for specific programs, research and training. We will develop additional collaborative projects with them for staff training and work with communities. Grants initiated from ISU will invite partnerships in delivery from other organizations where appropriate and will be inclusive of both campus- and field-based staff.

Allocated Resources:

Year	SYs	State and Federal funds
FY04	30.0	2,799,542
FY05	30.0	2,799,542
FY06	30.0	2,799,542

Program 300. Money 2000

Allocated Resources:

Year	SYs	State and Federal funds
FY04	12.73	1,201,823
FY05	12.73	1,201,823
FY06	12.73	1,201,823

Program 310. Strengthening Family Relationships

Additions to the program:

Output Indicators:

- 2000 professionals will participate in parenting education training offered by ISUE.
- 24 class leaders will be certified to teach "Powerful Tools for Caregivers" in Iowa. 240 family caregivers in 24 different communities will teach "Powerful Tools for Caregivers".

Allocated Resources:

Year	SYs	State and Federal funds
FY04	10.19	961,458
FY05	10.19	961,458
FY06	10.19	961,458

Program 311. Developing Community Housing Assets: A Self-Help Approach

This program has been eliminated.

Program 320. Child Care That Works

Allocated Resources:

Year	SYs	State and Federal funds
FY04	7.64	721,221
FY05	7.64	721,221
FY06	7.64	721,221

Program 340. Family Policy That Works

Allocated Resources:

Year	SYs	State and Federal funds
FY04	5.09	480,729
FY05	5.09	480,729
FY06	5.09	480,729

Program 410. Understanding Youth Needs

Allocated Resources:

Year	SYs	State and Federal funds
FY04	14.5	1,365,836
FY05	14.5	1,365,836

FY06	14.5	1,365,836
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Program 420. Out-of-School Time

Allocated Resources:

Year	SYs	State and Federal funds
FY04	6.2	585,358
FY05	6.2	585,358
FY06	6.2	585,358

Program 430. Youth Workforce Preparation

This program has been eliminated.

Program 440. Science and Technology Literacy

Allocated Resources:

Year	SYs	State and Federal funds
FY04	4.1	390,239
FY05	4.1	390,239
FY06	4.1	390,239

Program 450. Strengthening Volunteer Development

Allocated Resources:

Year	SYs	State and Federal funds
FY04	10.4	975,597
FY05	10.4	975,597
FY06	10.4	975,597

Program 460. Urban Youth

Allocated Resources:

Year	SYs	State and Federal funds
FY04	4.1	390,239
FY05	4.1	390,239
FY06	4.1	390,239

1862 Extension: Summary of Allocated Resources*:

Funding Source	FY 99 (Base)	FY 00	FY 01	FY 02	FY 03	FY 04	FY05	FY06
Goal 1								
Federal \$	2,856,613	2,826,841	2,856,975	2,887,712	2,919,064	2,668,138	2,668,138	2,668,138
State \$	7,503,750	7,643,137	7,724,416	7,807,520	7,892,285	7,593,934	7,593,934	7,593,934
Total \$	10,360,363	10,469,978	10,581,391	10,695,232	10,811,349	10,262,072	10,262,072	10,262,072
SYs	141.3	141.3	141.3	141.3	141.3	110.6	110.6	110.6
Goal 2								
Federal \$	145,009	145,009	145,009	145,009	145,009	374,968	374,968	374,968
State \$	380,909	388,527	396,298	404,224	412,308	1,067,220	1,067,220	1,067,220
Total \$	525,918	533,536	541,307	549,233	557,317	1,442,188	1,442,188	1,442,188
SYs	6.8	6.8	6.8	6.8	6.8	15.28	15.28	15.28
Goal 3								
Federal \$	44,472	44,981	45,366	45,819	46,278	38,570	38,570	38,570
State \$	120,240	121,617	123,156	124,665	126,208	109,778	109,778	109,778
Total \$	164,712	166,598	168,522	170,484	172,486	148,348	148,348	148,348
SYs	2.0	2.0	2.0	2.0	2.0	1.5	1.5	1.5
Goal 4								
Federal \$	689,077	695,602	716,959	738,689	760,853	390,783	390,783	390,783
State \$	1,810,068	1,880,704	1,938,446	1,997,197	2,057,124	1,112,230	1,112,230	1,112,230
Total \$	2,499,145	2,576,306	2,655,405	2,735,886	2,817,977	1,503,013	1,503,013	1,503,013
SYs	25.0	25.0	25.0	25.0	25.0	9.8	9.8	9.8
Goal 5								
Federal \$	3,036,657	3,036,657	3,036,657	3,036,657	3,036,657	2,566,731	2,566,731	2,566,731
State \$	7,976,695	8,136,229	8,298,953	8,464,932	8,634,230	7,305,311	7,305,311	7,305,311
Total \$	11,013,352	11,172,886	11,335,610	11,501,589	11,670,887	9,872,042	9,872,042	9,872,042
SYs	142.3	142.3	142.3	142.3	142.3	104.95	104.95	104.95
Annual								
Federal \$	6,771,828	6,749,090	6,800,966	6,853,886	6,907,861	6,039,190	6,039,190	6,039,190
State \$	17,791,662	18,170,214	18,481,269	18,798,538	19,122,155	17,188,473	17,188,473	17,188,473
Total \$	24,563,490	24,919,304	25,282,235	25,652,424	26,030,016	23,227,663	23,227,663	23,227,663
SYs	317.4	317.4	317.4	317.4	317.4	242.13	242.13	242.13

* The federal and state funds represent 82.8% of the total received. The remainder of the funds are allocated to county administration and general administration including finance, human resources, communication and computer staff.

II. Stakeholder Input Process: No change

III. Program Review Process: No change

IV. Multistate Research and Extension Activities

a. Hatch Multistate Research

The Iowa Agriculture and Home Economics Experiment Station projects the following fiscal resources for multistate projects:

	FY 00	FY 01	FY 02	FY 03	FY 04	FY05	FY06
Total Hatch and matching funds	\$3,318,637	\$3,385,010	\$3,452,710	\$3,521,764	\$3,558,670	\$3,558,670	\$3,558,670

The Iowa Agriculture and Home Economics Experiment Station participates in the following multistate activities:

NC7, NC94, NC100, NC107, NC125, NC129, NC131, NC136, NC140, NC170, NC202, NC205, NC213, NC215, NC218, NC219, NC222, NC225, NC228, NC229, NC504, NC1001, NC1002, NC1003, NC1004, NC1005, NC1006, NC1007, NC1008, NC1009, NC1010, NC1011, NC1012, NC1100, NC1119, NC1142, NCA1, NCA2, NCA4, NCA5, NCA6, NCA10, NCA12, NCA13, NCA14, NCA15, NCA16, NCA22, NCA23, NCA24, NCR3, NCR9, NCR13, NCR22, NCR25, NCR31, NCR42, NCR46, NCR52, NCR57, NCR59, NCR65, NCR84, NCR87, NCR89, NCR97, NCR101, NCR103, NCR125, NCR137, NCR148, NCR167, NCR170, NCR174, NCR180, NCR189, NCR190, NCR192, NCR193, NCR194, NCR197, NCR199, NCR200, NCR201, NCR203, NCR204, NCR206

NE127, NE167, NE1009, NE1010, NE1011, NE1012, NE1016, NEC63

NRSP4, NRSP7, NRSP8

S291, S292, S294, S295, S296, S303, S1000, S1004, S1005, S1007, S1008, S1010, SERA-IEG2, SERA-IEG17, SERA-IEG32, SERA-IEG76

W82, W128, W168, W170, W171, W173, W181, W187, W188, W1133, W1177, WCC58, WCC60, WCC101, WCC203, WCC207, WCC1001

b. Smith-Lever Multistate Extension

Goal 1 changes

- Eliminate Midwest Planning Service

- Eliminate Pork Industry Handbook
- Add ANR Extension Director, Associate Dean for Extension and Outreach programs, and Senior Associate Dean—These individuals each participate in key multistate programs and activities that vary from year to year. These programs and activities will be reported in the annual report.

Goal 2 – no change

Goal 3 – no change

Goal 4 changes

- Eliminate Regional Sustainable Agriculture Professional Development Project
- Eliminate 3 State Weed Management Short Course
- Eliminate North Central Regional USDA/IPM Weed Management Project
- Eliminate NCR Pesticide Impact Assessment Committee
- Eliminate NCR Small Farm Committee
- Eliminate NCR Alternative Pork Production Committee

Goal 5 changes

- Eliminate Eliminate Adoption and Diffusion project for prevention Education for Youth and Families
- Eliminate Textiles and Clothing
- Add the Families and Youth Extension Directors—each participates in key multistate programs and activities that vary from year to year. These programs and activities will be reported in the annual report.
-

**U.S. Department of Agriculture
 Cooperative State Research, Education, and Extension Service
 Supplement to the 5-Year Plan of Work
 Multistate Extension Activities and Integrated Activities
 (Attach Brief Summaries)**

Institution: Iowa State University
State: Iowa

Check one: **Multistate Extension Activities**
 Integrated Activities (Hatch Act Funds)
 Integrated Activities (Smith-Lever Act Funds)

Title of Planned Program/Activity	Estimated Costs						
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
Midwest Plan Service	22,000	22,000	22,000	22,000			
NELD	10,750	10,750	10,750	10,750	18,211	18,211	18,211
NCRCRD	2,500	2,500	2,500	2,500	2,553	2,553	2,553
Pork Industry Handbook	7,900	7,900	7,900	7,900			
Ag Program Director	10,000	10,200	10,400	10,600	25,637	25,637	25,637
Families Program Director		7,800	7,950	8,100	8,386	8,386	8,386
Youth Program Director		7,500	7,650	7,800	8,170	8,170	8,170
Director of Extension					8,928	8,928	8,928
Total	53,150	68,650	69,150	69,650	71,885	71,885	71,885

Director

Date

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V. Integrated Research and Extension Activities

Extension programs are directly linked with the research base of Iowa State University and other universities. Presently, there are 51 faculty with appointments split between research and extension working across the five program goals.

The coordination of research and extension programs occurs on a daily basis as campus-based faculty and staff (with both research and extension appointments) and field staff (extension and research and demonstration farm coordinators) interact to discuss current problems (disease outbreaks, weather related problems, etc.), to plan research and extension education programs and to implement these programs. The interaction that occurs is a two-way street as research is used to support educational programs and new issues that needed to be researched are shared with faculty.

This coordination/planning occurred in both formal and informal basis. While some of the most productive planning occurred during informal discussions, a more formal approach is used with all of the programs included in the POW. The committees that developed the plans based on stakeholder need, meet to implement the plan.

The faculty interaction is mirrored by college and extension administrators who meet regularly to discuss research and extension program response to emerging issues (farm economy, welfare reform, etc.). Furthermore, administration has strongly supported the development of key centers, issue teams and programs that integrate disciplines to address key issues. One example is the Iowa Beef Center that has developed a process to engage research and extension faculty from several departments and colleges, field staff and producers.

The funding for integrated activities comes from state and federal funds.

a. Hatch Integrated

Additions:

- **Beginning Farmer Center:** Michael Duffy is the professor in charge of the Beginning Farmer Center, which works to coordinate education programs and services for beginning farmer efforts statewide; assess needs of beginning farmers and retiring farmers; develop, coordinate, and deliver targeted education to beginning and retiring farm families; and provide programs and services that develop skills and knowledge in financial management and planning, legal issues, tax laws, technical production and management, leadership, sustainable agriculture, human health, the environment, and leadership. They do this by funding and supporting the Farm On program that links beginning farmers with farmers desiring to transition their farms to the next generation; the Ag Link seminar for college juniors and seniors that will be returning to the family farm; and the individual farm financial analysis for beginning farmers through the Extension Farm Financial Planning Program. They are developing a computer based version of the Farm Savvy transition manual; conducting research to determine the factors that motivate farm business owners to transition their farm business to the next generation; and provide

educational materials to beginning and exiting farmers through a variety of methods including the internet, seminars, and publications.

- **Iowa Pork Industry Center:** John Mabry is the director of the Iowa Pork Industry Center, which focuses its efforts in programs that are integral and complementary to work by Iowa State University Extension. Through the Center, Iowa producers receive accurate and timely information to aid in making their operations more efficient and profitable.
- **Iowa Beef Center:** John Lawrence (extension) is the director of the Iowa Beef Center. IBC objectives are to be the central access point for Iowa State University programs related to the beef industry; serve as an interdisciplinary catalyst to integrate Iowa State University resources that serve the beef industry; help Iowa expand the production of high quality, identity-preserved, value-added beef; integrate Iowa State University resources and programs with those of commodity, agricultural, and government organizations to maximize opportunities for the beef industry; anticipate emerging technologies and issues that will affect the beef industry; and provide research-based information and education to the industry on issues such as risk management, market access, food safety and quality, facility design, and the environment.
- **Farm Safety:** Dr. Charles Schwab is the extension safety specialist for the State of Iowa, and provides leadership for Safe Farm, ISU Extension's program helping to make Iowa farms a safer place to work and live. The activities of the ISU Extension Safe Farm program are directed toward the following four major objectives: (1) Increasing farm safety awareness to encourage farmers to adopt safe farming practices, (2) Reducing the number of farm-related injuries and fatalities, (3) Enhancing the efficiency of ISU Extension to provide farm safety programming, and (4) Providing leadership and expertise for the development of farm safety programs. Dr. Schwab also cooperates with the Progressive Farmer's farm safety day camp program providing educational activities to over 50,000 youth and is the ISU Extension's lead coordinator for emergency preparedness. Dr. Schwab conducts research projects concerning agricultural safety and health issues. His research includes efforts in the area of granular mechanics safety, injury and fatality identification and analysis, and safety education and intervention methods.

b. Smith-Lever Integrated – no change in narrative

c.

**U.S. Department of Agriculture
 Cooperative State Research, Education, and Extension Service
 Supplement to the 5-Year Plan of Work
 Multistate Extension Activities and Integrated Activities
 (Attach Brief Summaries)**

Institution: Iowa State University
State: Iowa

Check one: **Multistate Extension Activities**
 Integrated Activities (Hatch Act Funds)
 Integrated Activities (Smith-Lever Act Funds)

Title of Planned Program/Activity	Estimated Costs						
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
Food Crops	\$25,900	\$25,900	\$25,900	\$25,900	\$23,200	\$23,200	\$23,200
Crop Production and Management	600	600	600	600	25,200	25,200	25,200
Precision Agriculture	20,000	20,000	20,000	20,000	2,400	2,400	2,400
Green Industry	3,900	3,900	3,900	3,900	5,000	5,000	5,000
Improved Grazing Systems	40,000	40,000	40,000	40,000	0	0	0
Animal Physiology	6,500	6,500	6,500	6,500	0	0	0
Animal Genetics	84,000	84,000	84,000	84,000	26,200	26,200	26,200
Alternative Livestock	6,400	6,400	6,400	6,400	5,400	5,400	5,400
International Economic Competitiveness	31,650	31,650	31,650	31,650	0	0	0
Agricultural Risk Management	31,650	31,650	31,650	31,650	0	0	0
Agricultural Information Technology	3,390	3,390	3,390	3,390	18,200	18,200	18,200
Food Safety	3,800	3,800	3,800	3,800	18,000	18,000	18,000
Improving Human Foods	16,000	16,000	16,000	16,000	12,000	12,000	12,000
Soil Resources Management	20,000	20,000	20,000	20,000	18,000	18,000	18,000
Integrated Pest Management	28,000	28,000	28,000	28,000	54,200	54,200	54,200

Title of Planned Program/Activity	Estimated Costs						
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
Animal Waste Management	17,250	17,250	17,250	17,250	15,200	15,200	15,200
Water Resources Management	6,400	6,400	6,400	6,400	9,000	9,000	9,000
Environmental Quality	6,400	6,400	6,400	6,400	0	0	0
Rural Development	47,180	47,180	47,180	47,180	60,200	60,200	60,200
Fiber-Related Products (Textiles and Apparel)	16,184	16,184	16,184	16,184	0	0	0
Value Added Agriculture	6,732	6,732	6,732	6,732	0	0	0
Quality of Life	587	587	587	587	5,500	5,500	5,500
Grain Quality: Marketing & Delivery	25,760	25,760	25,760	25,760	25,200	25,200	25,200
Poultry Production Systems	7,750	7,750	7,750	7,750	19,200	19,200	19,200
Seed Science	20,640	20,640	20,640	20,640	56,200	56,200	56,200
Beginning Farmer Center					38,200	38,200	38,200
Iowa Pork Industry Center					29,200	29,200	29,200
Iowa Beef Center					2,773	2,773	2,773
Farm Safety					8,200	8,200	8,200
Total (corrected an earlier addition error)	\$476,673	\$476,673	\$476,673	\$476,673	\$476,673	\$476,673	\$476,673

Director

Date

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**U.S. Department of Agriculture
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Institution: Iowa State University
State: Iowa

Check one: **Multistate Extension Activities**
 Integrated Activities (Hatch Act Funds)
 Integrated Activities (Smith-Lever Act Funds)

Title of Planned Program/Activity	Estimated Costs						
	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006
Program 107 Beef Center	49,000	83,000	128,000	131,000	113,420	113,420	113,420
Program 142 IPM/ICM	40,000	145,000	223,000	227,000	174,821	174,821	174,821
Program 108 Pork Center		35,000	54,000	55,000	79,948	79,948	79,948
Program 146 Consumer Horticulture		56,000	86,000	88,000	81,401	81,401	81,401
Program 147 Sustainable Agriculture					38,960	38,960	38,960
Programs 101/104 Strategic Advantage and Ag Financial Management					20,227	20,227	20,227
Total	89,000	319,000	491,000	501,000	508,776	508,776	508,776

Director

Date

Form CSREES-PLAN (2/00)

