

PLAN OF WORK EXTENSION

2005 - 2006

West Virginia Agricultural and Forestry Experiment Station

and

Davis College of Agriculture, Forestry and Consumer Sciences

West Virginia University

W.E. Vinson, Associate Director

Ph: (304) 293-4421 email: wvinson@wvu.edu

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Introduction

Very few changes to existing programs are planned for the FY2005-2006 Plan of Work Extension. Several new faculty hires during the past two years will result in meaningful changes in the five year plan of work, 2007-2011 from the West Virginia Station. However we do not expect the research programs directed by these new faculty to have major impact on Station goals during this two-year Plan of Work extension.

2000 – 2004 Plan of Work: Program 1

Globally competitive agricultural and forestry production systems.

Issue(s)

As domestic agricultural and forest product markets become more open to foreign businesses, and as opportunities expand to market agricultural and forest products in foreign markets, West Virginia agricultural and forest product producers must have access to technologies and knowledge that enhance their competitiveness.

Performance Goal(s)

Increased market shares for targeted agricultural and forest products of West Virginia.

Output Indicators:

1. Value-added agricultural and forest products.
2. Results of market research for selected agricultural and forest products.

Outcome Indicators:

1. Increased trade opportunities for West Virginia products.
2. Greater domestic-market share opportunities for West Virginia products.

Key Program Component(s): Research project activities will focus on:

1. Enhanced profitability of agricultural and forest production methods;
2. Value-added technologies applied through processing and packaging;
3. Niche-market identification through economic and consumer studies.
4. In 1999, a total of 44 Hatch, McIntire-Stennis, and State projects address these issues.

Internal and External Linkages

Partnership will be continued with extension, federal labs, other universities, and the private sector, as appropriate to this performance goal. We will focus on shared responsibilities for the agreed research objectives of projects and we will use joint ventures with industry to facilitate technology transfer.

Target Audiences

We will be focusing on agricultural and forest product producers and processors with emphasis on small and medium sized enterprises. Special attention will be devoted to traditionally underserved sectors, such as rural poor. Care will be given to meet the needs of all West Virginians including those that are at a geographical distance from the WV Agricultural and Forestry Experiment Station.

Program Duration

This program will continue for the five year life of this plan.

2005 – 2006 Plan of Work Extension: Program 1

Allocated Resources for Program 1 (\$ x 1000; SY=units)

Fund Year	FFY99	FFY00	FFY01	FFY02	FFY03	FFY04	FFY05	FFY06
Formula	\$1,944	\$1,944	\$2,000	\$2,000	\$2,100	\$2,200	\$1,200	\$1,200
Other Federal	\$679	\$680	\$700	\$725	\$750	\$775	\$1,200	\$1,200
Non-Federal	\$2,917	\$3,000	\$3,200	\$3,300	\$3,500	\$3,750	\$3,000	\$3,000
Total	\$5,540	\$5,624	\$5,900	\$6,025	\$6,350	\$6,725	\$5,400	\$5,400
SY	17.3	18	18	19	20	20	18	18

Resources listed above for FFY00 – FFY04 were projected in the 2000-2004 Plan of Work anticipating at least nominal increases in state and federal support which did not occur. Values projected for FFY05 and FFY06 are adjusted to current fiscal realities.

Emphasis has gradually shifted from research programs which increase competitiveness in foreign markets to those which develop and support niche domestic markets. Examples include organic production of fruits, vegetables, field crops and livestock, aquaculture production for food and recreational industries, low cost pasture production of livestock, pasture finishing of beef, etc. This focus will continue in the 2005 – 2006 Plan of work extension. In 2003, there were 42 Hatch, McIntire-Stennis and State projects which addressed this goal.

2000 – 2004 Plan of Work: Program 2

A healthy, well-nourished population that has access to an adequate, safe, and secure food system.

Issue(s)

Stakeholder listening sessions held throughout the State of West Virginia during 1997 and 1998 have pointed out citizen concerns for their access to a nutritious, safe and secure supply of foods.

Performance Goal(s)

Increased consumer access to targeted agricultural and forest products of West Virginia that provide enhanced nourishment, greater assurances for safety, and better access through lower costs, added nutritional components, extended shelf-life, and better product distribution systems.

Output Indicators:

1. Better detection methods for food-borne illnesses (a).
2. Genetic and biochemical modification of locally produced foods (b).
3. Marketing and distribution research results for selected agricultural products (b).
4. Processing research results for extended shelf life of agricultural products (a and b).
5. Reduced losses of food and fiber to pest organisms (a).

Outcome Indicators:

1. Increased access to food for West Virginia consumers (b).

2. Greater consumer confidence in West Virginia produced and/or processed foods (a and b).
3. Reduced malnutrition in rural and urban poor populations (b).

Key Program Component(s): Research projects will focus on:

1. Enhanced safety for West Virginia’s agricultural products through detection and treatment;
2. Better market distribution methods, identified through economic and consumer studies;
3. Shelf-life-extending technologies applied through food processing and packaging;
4. Improved management of pest organisms.
5. In 1999, three Hatch and State projects address these issues.

Internal and External Linkages

Partnership will be continued with extension, federal labs, other universities, and the private sector, as appropriate to this performance goal. We will focus on shared responsibilities for the agreed research objectives of projects, and we will use joint ventures with industry to facilitate technology transfer, when appropriate.

Target Audiences

We will be focusing on the consumers of West Virginia produced agricultural products, with attention given to all citizens. When appropriate, special attention will be devoted to traditionally underserved sectors, such as rural and urban poor.

Program Duration

This program will continue for the five year life of this plan.

2005 – 2006 Plan of Work Extension: Program 2

Allocated Resources for Program 2 (\$ x 1000; SY=units)								
Fund Year	FFY99	FFY00	FFY01	FFY02	FFY03	FFY04	FFY05	FFY06
Formula	\$35	\$35	\$40	\$40	\$45	\$60	\$160	\$175
Other Federal	\$0	\$50	\$60	\$75	\$90	\$100	\$100	\$200
Non-Federal	\$61	\$65	\$70	\$80	\$90	\$100	\$225	\$250
Total	\$96	\$150	\$170	\$195	\$225	\$260	\$485	\$525
SY	0.6	.6	1.0	1.5	2.5	2.5	2.0	2.5

The 2000 – 2004 Plan of Work for the West Virginia Station combined National Goals 2 and 3 due to the very limited emphasis given to these areas in Station research programs. Resources listed above for FFY00 – FFY04 were projected in the 2000-2004 Plan of Work anticipating at least nominal increases in state and federal support which did not occur. Values projected for FFY05 and FFY06 are adjusted to current fiscal realities as well as for a gradual increase in resources allocated to these goals.

Recent and planned faculty hires in the areas of food processing, food safety and human nutrition will produce slightly more emphasis on issues addressed in these National Goals during the Plan of Work extension period, 2005 - 2006. We expect an even greater emphasis in the 2007 – 2011

Plan of Work. Research will focus on food safety; food processing, marketing and distribution research for selected agricultural products; and improved nutrition for rural families. In 2003 there were three Hatch, McIntire-Stennis and state projects which addressed these goals.

2000 – 2004 Plan of Work: Program 3

Greater harmony between agricultural and forest practices and the environment.

Issue(s)

To be sustainable, any development strategy requires production practices that balance technologies that are both profitable and productive in the long term. All too often producers have too few options available to match economic necessity with environmental imperatives. Research strategies need to assure adequate options are available to producers for better decision making.

Performance Goal(s)

Increase technology options available to agricultural and forest producers in ways to support sustainable development.

Output Indicators:

1. Methods for animal waste management that protect the environment.
2. Agricultural harvesting and forest logging practices that are compatible with economic and environmental goals.
3. Production practices options for reducing over-reliance on chemicals.

Outcome Indicators:

1. Reduced water pollution attributed to farm animals.
2. Less degradation of land as a result of harvest practices.
3. More rational uses of agricultural chemicals by producers.

Key Program Component(s): Research projects will focus on:

1. New, alternative technologies for managing animal wastes;
2. Development of options for harvesting methods that are environmentally sound and sustainable;
3. Improved pest, disease, and soil nutrient management systems.
4. In 1999, a total of 18 Hatch, McIntire-Stennis, and State projects address these issues.

Internal and External Linkages

Partnership will be continued with extension, federal labs, other universities, and the private sector, as appropriate to this performance goal. We will focus on shared responsibilities for the agreed research objectives of projects, and we will use joint ventures with industry to facilitate technology transfer, when appropriate.

Target Audiences

We will be focusing on the most serious environmental problems of the State of West Virginia, as determined through local listening sessions, surveys, and through the College's Visiting Committee (see below). As a consequence, selected environmental sectors will receive our attention, but the intention is to have the greatest impact possible, with our limited resources.

Indirect benefits will accrue to all citizens of the State through an improved environment and sustained development of our State's natural resources.

Program Duration

This program will continue for the five year life of this plan.

2005 – 2006 Plan of Work Extension: Program 3

Allocated Resources for Program 3 \$ x 1000; SY=units):

Fund Year	FFY99	FFY00	FFY01	FFY02	FFY03	FFY04	FFY05	FFY06
Formula	\$719	\$720	\$730	\$740	\$750	\$760	\$445	\$450
Other Federal	\$161	\$165	\$175	\$180	\$200	\$250	\$250	\$250
Non-Federal	\$879	\$880	\$980	\$1,105	\$1,200	\$1,200	\$470	\$500
Total	\$1,759	\$1,765	\$1,885	\$2,025	\$2,150	\$2,210	\$1,165	\$1,200
SY	7.7	7.7	8.2	8.2	9.0	9.0	4.5	4.5

Resources listed above for FFY00 – FFY04 were projected in the 2000-2004 Plan of Work anticipating at least nominal increases in state and federal support which did not occur. Values projected for FFY05 and FFY06 are adjusted to current fiscal realities.

Changes in the FFY05-06 Plan of Work extension for Program 3 are very few. Emphasis on waste management has gradually broadened from “animal” waste to include other types as well (human, chemical, mine drainage, etc.) with impact measured on soils, streams, wetlands and ground water supplies. In 2003, there were 15 Hatch, McIntire-Stennis and State projects which addressed this goal.

2000 – 2004 Plan of Work: Program 4

Enhanced economic opportunity and quality of life for citizens and communities.

Issue(s)

Rural and urban communities need to have more options for economic development and quality of life improvement. Research is required that is both economically and culturally sensitive to the needs of traditionally underserved groups.

Performance Goal(s)

Increase the economic opportunity and quality of life options available to all citizens.

Output Indicators:

1. Technologies that expand family income streams.
2. Greater understanding of workforce limitations and constraints.
3. Better intervention methods for quality of life improvements.

Outcome Indicators:

1. Economically improved rural and urban communities.
2. Opportunities for reduced unemployment.
3. A more employable workforce.
4. Qualitative improvements in life quality for some previously underserved sectors.

Key Program Component(s): Research projects will focus on:

1. Supplemental income strategies, especially for low income families;
2. Better methods for characterizing employee skills and employer needs;
3. Improved methods to measure and assess the quality of life in West Virginia;
4. Alternative enterprises, e.g. tourism, aquaculture;
5. In 1999, a total of 14 Hatch, McIntire-Stennis, and State projects address these issues.

Internal and External Linkages

Partnership will be continued with extension, federal labs, other universities, and the private sector, as appropriate to this performance goal. We will focus on shared responsibilities for the agreed research objectives of individual projects.

Target Audiences

We will be focusing on the most economically disadvantaged citizens of our State. Particular attention will be given to the traditional underserved populations in our rural communities.

Program Duration

This program will continue for the five year life of this plan.

2005 – 2006 Plan of Work Extension: Program 4

Allocated Resources for Program 4 (\$ x 1000; SY=units):

Fund Year	FFY99	FFY00	FFY01	FFY02	FFY03	FFY04	FFY05	FFY06
Formula	\$265	\$265	\$265	\$280	\$300	\$325	\$650	\$650
Other Federal	\$154	\$160	\$180	\$200	\$225	\$250	\$250	\$250
Non-Federal	\$543	\$600	\$625	\$700	\$800	\$875	\$900	\$1,000
Total	\$962	\$1,025	\$1,070	\$1,180	\$1,325	\$1,450	\$1,800	\$1,900
SY	4.8	4.8	4.8	5.0	5.0	5.0	9.0	9.0

Resources listed above for FFY00 – FFY04 were projected in the 2000-2004 Plan of Work anticipating at least nominal increases in state and federal support which did not occur. Values projected for FFY05 and FFY06 are adjusted to current fiscal realities but also reflect additional support given to research involving economic development and factors affecting quality of life for rural communities and families.

There are no areas of emphasis in this extension which are meaningfully different from those in the 2000 – 2004 Plan of Work. More specifically stated, “enhanced economic opportunity and quality of life” mean development of food and fee fishing industries; expanding tourism in the state; improving human nutrition, health and safety; supporting local food production and marketing systems; defining impacts of public and private land use policies; wildlife management;

and youth development. In 2003, there were 26 Hatch, McIntire-Stennis and State projects addressing these issues.

2000 – 2004 Plan of Work: Stakeholder Input

Listening Sessions: Each year the Dean/Director and selected administrative staff and faculty will, in collaboration with West Virginia's Cooperative Extension Service, hold six or more open-to-the-public, out-in-the-State listening sessions. The purpose of these sessions will be to gather stakeholder input and comments on past achievements, current activities, and proposed plans for our research programs. All listening sessions will be publicly announced through local and regional newspapers, appropriate newsletters, and through our county Cooperative Extension offices in that locale. To better ensure attendance by all populations, our special contacts with trade groups, commodity associations, agricultural and forestry suppliers, and state agencies will be used to request their assistance in extending invitations to the broadest possible community of stakeholders. A more complete discussion of our stakeholder input processes, along with a summary of findings and results from recent sessions, is found in the document *A Practitioner's Guide to Implementing the 1998 Farm Bill*. The document may be viewed at <http://www.agnr.umd.edu/users/nera/publications.html>.

College Visiting Committee: In addition the College will continue to sponsor the College's Visiting Committee. Membership on this council is purposefully balanced to represent the diversity of agriculture and forestry in West Virginia today, and consumers of those products. The membership will remain at the present size of 16. Meetings of the Visiting Committee will be semi-annual. Additional meeting may be called at the discretion of the Dean/Director. Additional *ad hoc* members may be added for any meeting, especially for an agenda that focuses on a special topic.

Both sources of stakeholder-derived information will be summarized annually in an annual report from the Dean/Director.

2005 –2006 Plan of Work Extension: Stakeholder Input

Listening sessions having as their sole purpose the gathering of stakeholder input have been discontinued at least for the immediate future. Listening sessions are now held at annual or regular business and educational meetings of various organizations. We find listening sessions at these meetings yield comments from a much larger and more diverse group of stakeholders.

The West Virginia Agriculture and Forestry Experiment Station Advisory Board has been meeting since April, 2001 and has provided excellent direction and council to Station and College personnel.

2000 – 2004 Plan of Work: Merit and Peer Review

We adopt by reference, and make a part of this report, the *National Standards for Merit and Peer Review*.

2005 – 2006 Plan of Work Extension: Merit and Peer Review

No changes are planned in the merit and peer review process.

2000 – 2004 Plan of Work: Multi-Institutional, Multi-Disciplinary, Multi-State, and Integrated Activities

Extension. The West Virginia Agricultural and Forestry Experiment Station maintains joint appointments of certain scientists between the Experiment Station and Extension Service. These joint appointments greatly facilitate the identification of needs for the research programs as well

as extension programs. In 1999, Research and Extension shared 11 scientists positions as follows:

Area	% Research	% Extension
Aquaculture	30	70
Veterinarian	80	20
Animal Science	20	80
Animal Science	22	78
Animal Science	20	80
Forestry	50	50
Agronomy	87	13
Plant Pathology	70	30
Soil Science/Reclamation	35	65
Entomology	30	70
Soil Science	30	70

The Director of the Experiment Station and the Director of Extension have monthly coordinating meetings where existing and potential activities of mutual interest are planned and developed. Stakeholder listening sections (see above) involve both research and extension personnel and issues relative to both are identified in these sessions.

Multi-institutional. Opportunities for collaboration with other colleges in West Virginia is somewhat limited. West Virginia University is the only doctoral degree-granting university in the state, and the only institution with a significant research faculty and facilities in the natural resources and agricultural sciences. Nonetheless, the West Virginia Land Grant Association, a partnership between West Virginia University and West Virginia State College, an 1890 institution, was formed in 1998. One of the purposes of the Association is to explore areas of mutual interest and potential collaboration in research and extension. We expect this partnership to identify areas of mutual interest where research and extension services to citizens will be expanded.

Multi-state. Our plan for fulfilling our obligations to the AREERA's multi-state, multi-disciplinary and integrated activities are contained in the *Northeast Coordinated Activities Framework*, which may be viewed on line at <http://aster.uvm.edu/rr/rrmantoc.htm>. Accomplishments reporting on our multi-state, multi-disciplinary, and integrated activities for our Station will be through the annual Northeast impact statements and the Northeast results reports

2005 – 2006 Plan of Work Extension: Multi-Institutional, Multi-Disciplinary, Multi-State, and Integrated Activities

There are no changes planned in multi-institutional, multi-disciplinary, multi-state and integrated activities.

2000 – 2004 Plan of Work: Equal Employment Opportunity Reporting

West Virginia University's published procedures for reporting Civil Rights compliance and Equal Employment Opportunity requirements, and the current AA/EEO approved plan for the College of Agriculture, Forestry, and Consumer Sciences, "*West Virginia University. Affirmative Action/EEO Plan Summary, 1999. College of Agriculture, Forestry, and Consumer Sciences*", are adopted by reference as part of this plan. Reports for the University and the College are filed by the West Virginia University's Office of the President to the U.S. Department of Education and must be in compliance with 41CFR60-2.13(a).

2005 – 2006 Plan of Work Extension: Equal Employment Opportunity Reporting

There are no changes planned in equal employment opportunity reporting.