

Economic Prosperity of Productive and Sustainable Food and Fiber Systems

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Economic Prosperity of Productive and Sustainable Food and Fiber 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	15%	10%	10%	20%
123	Management and Sustainability of Forest Resources	10%	10%	10%	20%
205	Plant Management Systems	10%	10%	10%	20%
216	Integrated Pest Management Systems	15%	10%	10%	15%
311	Animal Diseases	5%	10%	10%	10%
601	Economics of Agricultural Production and Farm Management	10%	10%	10%	15%
602	Business Management, Finance, and Taxation	10%	10%	10%	0%
604	Marketing and Distribution Practices	5%	10%	10%	0%
608	Community Resource Planning and Development	10%	10%	10%	0%
801	Individual and Family Resource Management	10%	10%	10%	0%
Total		100%	100%	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
Plan	40.0	6.0	20.0	3.0
Actual	35.0	6.0	20.0	3.0

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

Extension		Research	
Smith-Lever 3b & 3c 1392238	1890 Extension 499788	Hatch 1866122	Evans-Allen 553812
1862 Matching 1392238	1890 Matching 499788	1862 Matching 1866122	1890 Matching 553812
1862 All Other 0	1890 All Other 0	1862 All Other 0	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

1. IPM

Crops: Diagnostic and training publications; Research results from alternative control studies; List of the personnel at UMD that are trained in sustainable agriculture for distribution to organic and sustainable grower groups; New diagnostic abilities; New pest management programs for mid-Atlantic area and the N.E. United States.

Green industry: Short course and training seminars for industry personnel; Electronic dissemination of IPM information; Conduct field trials to evaluate low risk pesticides, biological control releases and augmentation, and alternative to chemical control methods; Conduct research on methods that reduce use of highly or moderately toxic pesticides; Pesticide safety use certification; Research in weed control strategies and disease control using bio-rational and bio-pesticides; Provide Plant Pest and Pathogen Assay and Diagnostic Facilities; Master Gardeners receive basic and advanced training; Extension faculty develop curriculum, resources and products.

2. Community Resource Development

Web sites; Fact sheets; Posters; Tours; County and regional workshops; Grant monies; New marketing ventures; New farmers' markets; Media releases

3. Biosecurity and Animal Health

In-service training programs, educational seminars and workshops, and training kits; Three regional in-service training programs for Extension & Research faculty (50-75 people); 50 training kits will be prepared for Extension and Research faculty (50-75 people); 5-10 educational seminars will be held for producers, allied industry personnel, and government workers (200 people).

4. Alternative Crops

Short course and training seminars for industry personnel; Conduct field trials to evaluate alternative crops; Evaluations for crop varieties, IPM, fertility, other production issues; Market investigation; 3 crop tours/twilight per year focusing on alternative crops and enterprises; Collaborate on 2 regional production and marketing conferences (MADMC, Future Harvest's Farming for Profit and Stewardship Conference); Develop 5 organic crop enterprise budgets; Research will be conducted in the areas of high tunnel crop production, organic and ethnic vegetable production, and pumpkin production; Maryland-developed alternative crop/enterprise information will be available on the MCE web site;

5. Pasture Management

Variety trial data annual bulletins; Financial analysis: Annual Dairy Financial Analysis of pasture farms; Fact sheets 2 revised and 3 new printed fact sheets; Website for Maryland and other researched-based bulletins, fact sheets, presentation, and information; Seminars and workshops; Pasture walks; Individual farm consultations; Ten revised and three new PowerPoint presentations; Three peer reviewed journal articles.

6. Family Financial Management

Work with Financial Security for Later Life and eXtension to identify and implement statewide educational needs; Facilitate Financial Security for Later Life and eXtension to partners and audiences; Conduct train-the-trainer programs such as Maryland Saves trainings, High School Financial Planning Program; Provide capacity building opportunities such as Personal Finance Seminar for Professionals for partners, educators, and volunteers.

2. Brief description of the target audience

1. IPM

Crops: Crop scouts; Certified Crop Advisors; Chemical reps; Industry personnel; Extension faculty; Master Gardeners; Farmers.

Green Industry: Arborist, landscape managers, professional ground managers, greenhouse growers, cut flower growers, homeowners, Master Gardeners; Agency personnel (MDA, MCE, USDA); Certified pesticide applicators in category III, IV, IV; Private pesticide applicators; Technicians; Undergraduate and Graduate students; General public (e.g. Master-gardeners); IPM consultants; Landscape architects; Community Gardeners; Builders and Developers; Municipalities; Federal, state & local agencies

2. Community Resource Development

Southern MD Agricultural Development Commission; MARBIDCO; Chesapeake Fields; Garrett-Preston Rural Development Association; Rural Development Center at UMES; Local Agricultural Development Specialists; Planning and Zoning Boards; Farmers; Forest Landowners; General public. Marketing Maryland Agricultural Commodities-- Farmers; producers; growers; grain marketing clubs; farmers markets; local economic development offices; mid-Atlantic Direct Marketing Association.

3. Bio-security and Animal Health

Farmers; youth; MDA; Agricultural industry; Small and Beginning farmers; Backyard livestock owners; Extension faculty.

4. Alternative Crops

Traditional farmers, people new to agriculture community, small and part time business owners, land owners; Technicians; Undergraduate and Graduate students; General public; Landscape architects; Members of specialty production groups and associations; Markets (the direct consumer or potential buyer of alternative crops); traditional farmers; small, beginning farmers.

5. Pasture Management

Individual landowners; agribusinesses; horse owners; dairy farmers; beef producers; sheep and goat producers; USDA conservationists.

6. Family Financial Management

Families; volunteers; educators; high school students; community development corporations; financial institutions; State Attorney Generals Office; Department of Social Services.

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	14500	1600	750	1
2007	54277	1000	0	0

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

Patent Applications Submitted

Year	Target
Plan:	1
2007:	7

Patents listed

Sling for growing strawberries in high tunnels.

Methods of Making and Using Nutritional Compositions.

Genetically Engineered Newcastle Disease Virus as an Oncolytic Agent, and Methods of Using Same.

Genetic Polymorphisms Associated with Body Fat.

Process for Rapid Anaerobic Digestion of Biomass Using Microbes and the Production of Biofuels Therefrom.

Activation of the Ornithine-Urea Cycle in Ruminant Gut Tissues to Detoxify Ammonia and Increase Local Urea Re-Cycling to the Rumen for Microbial Protein Synthesis.

Production of Novel Castledisease Virus Strains from cDNAs and Improved Live Attenuated Newcastle Disease Vaccines.

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan			
2007	25	105	130

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

1. IPM: Fact sheets; short courses, field trials, curriculum, websites linked, grants awarded.

Year	Target	Actual
2007	65	69

Output #2**Output Measure**

2. Community Resource Development: Publications; advisory committees, enterprises, relationships, laws, programs, curriculum

Year	Target	Actual
2007	60	172

Output #3**Output Measure**

3. Biosecurity and Animal Health: In-service training, training kits, seminars, publications, grants, presentations, websites linked.

Year	Target	Actual
2007	63	140

Output #4**Output Measure**

4. Marketing Maryland Agriculture Commodities: Short courses, workshops, websites, fact sheets, grants, farmers markets, marketing plans

Year	Target	Actual
2007	28	0

Output #5**Output Measure**

5. Alternative Crops: Grants, in-service training, workshops, publications, field trials, new crops, enterprise budgets

Year	Target	Actual
2007	32	35

Output #6**Output Measure**

6. Pasture Management: Pasture walks, variety trials, in-service training, grants, publications, budgets, practices implemented, websites

Year	Target	Actual
2007	60	57

Output #7**Output Measure**

7. Family Financial Management: Workshops, seminars, publications, in-service training, volunteers, partnerships, new enterprises, grants.

Year	Target	Actual
2007	48	118

V(G). State Defined Outcomes

O No.	Outcome Name
1	1. IPM :Number of: IPM scouts and producers that can identify threshold level; pest management programs; implementing research based recommendations; certification in Pesticide Safety; field trails.<
2	2. Community Resource Development: Number of: business people, advisory groups, development agencies, rural leaders interested in developing ANR businesses and having access to knowledge.
3	3. Bio-security and Animal Health: Number of: educational seminars held for producers, allied industry personnel and government workers; training kits developed and distributed.
4	4. Marketing Maryland Agricultural Commodities: Number of: farm markets established; marketing plans developed; new cooperatives formed.
5	5. Alternative Crops: Number of: farmers showing an increased knowledge of alternative crops and enterprises; alternative crops being implemented; new businesses established.
6	6. Pasture Management: Number of: farmers adopting best management practices and increasing profitability; new variety trails; NRCS and SWCD personnel trained.
7	7. Family Financial Management: Number of: volunteers trained; new partnerships developed; new enterprises; people improving financial security.
8	Western Maryland Pasture-Based Meat Goat Performance Test: Number of programs, field trails and consultations.

Outcome #1

1. Outcome Measures

Not reporting on this Outcome for this Annual Report

2. Associated Institution Types

3a. Outcome Type:

3b. Quantitative Outcome

Year	Quantitative Target	Actual
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3c. Qualitative Outcome or Impact Statement

Issue (Who cares and Why)

What has been done

Results

4. Associated Knowledge Areas

KA Code	Knowledge Area
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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

Competing Programmatic Challenges

Populations changes (immigration, new cultural groupings, etc.)

Other (Urban sprawl)

Brief Explanation

Most goals were met or exceeded. However, due to the newly established MD Rural Economic Development Center within MCE, it was decided to consolidate the CRD and Marketing reporting functions within this annual report.

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)

Other (Listening sessions)

Evaluation Results

MCE is in the process of hiring a new evaluation specialist to assist in evaluating overall program impacts statewide. For now individual program impacts are captured via evaluations during programs or as follow-up to program events. Basically pre and post tests and 1-2 year follow-up surveys to measure behavioral changes.

Family Financial Management:

The annual Personal Finance Seminar took place over a 3-day period in May 2007 for over 100 financial professionals.

An end-of-seminar evaluation was conducted at the end of training. Participants found the training was worth attending (N=4.93) on a Likert scale of 5= yes, very much; 1= no, not at all. All respondents (100%) felt that the training dealt with important needs for them personally, 100% for them professionally, and 100 % for their clientele. Most of participants (88%) responded that they would personally use the information from training and 83% responded that they will use the information to make changes in the way to counsel and educate their customers/clients. Behavioral changes include set financial goals, develop a net worth statement, develop a budget, organize records, reduce debt, increase savings, improve insurance coverage, and others.

Key Items of Evaluation