

Agricultural Systems

Agricultural Systems

V(A). Planned Program (Summary)

1. Name of the Planned Program

Agricultural 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	10%	10%	10%	0%
111	Conservation and Efficient Use of Water	10%	10%	10%	0%
112	Watershed Protection and Management	10%	10%	10%	0%
131	Alternative Uses of Land	10%	10%	10%	0%
205	Plant Management Systems	10%	10%	10%	0%
307	Animal Management Systems	10%	10%	10%	0%
402	Engineering Systems and Equipment	10%	10%	10%	0%
403	Waste Disposal, Recycling, and Reuse	10%	10%	10%	0%
601	Economics of Agricultural Production and Farm Management	10%	10%	10%	0%
605	Natural Resource and Environmental Economics	10%	10%	10%	0%
Total		100%	100%	100%	0%

V(C). Planned Program (Inputs)

1. Actual amount of professional FTE/SYs expended this Program

Year: 2008	Extension		Research	
	1862	1890	1862	1890
Plan	52.2	1.7	20.0	0.0
Actual	24.5	6.2	56.2	0.0

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

Extension		Research	
Smith-Lever 3b & 3c 584219	1890 Extension 309983	Hatch 420228	Evans-Allen 0
1862 Matching 584651	1890 Matching 313307	1862 Matching 1273611	1890 Matching 0
1862 All Other 1414856	1890 All Other 150000	1862 All Other 8974393	1890 All Other 0

V(D). Planned Program (Activity)

1. Brief description of the Activity

Conduct research experiments that educate and solve applied problems;
 Establish partnerships to identify needs and develop solutions;
 Conduct workshops, both traditional and hands-on, and meetings to provide training for farmers and educators;
 Organize and conduct state and regional conferences;
 Establish on-farm demonstrations;
 Develop enterprise budgets;
 Develop products, curriculum, and resources for use by educators and directly by producers;
 Conduct assessments as needed to evaluate progress.

2. Brief description of the target audience

Commercial producers;
 4-H youth;
 Master Gardeners;
 State and federal agency personnel;
 Extension Educators;
 Policy makers;
 Consumers;
 Supermarket chain store buyers;

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	310000	2240000	77000	560000
2008	58477	91150	15741	2989

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

Patent Applications Submitted

Year	Target
Plan:	0
2008:	1

Patents listed

Value-added granulated organic fertilizer. U.S. Provisional Patent ARK007/08304

3. Publications (Standard General Output Measure)

Number of Peer Reviewed Publications

	Extension	Research	Total
Plan	5	10	
2008	13	35	48

V(F). State Defined Outputs

Output Target

Output #1

Output Measure

Number of educator training workshops

Year	Target	Actual
2008	24	22

Output #2

Output Measure

Number of field research experiments

Year	Target	Actual
2008	14	26

Output #3

Output Measure

Number of on-farm demonstrations

Year	Target	Actual
2008	14	26

Output #4

Output Measure

Number of producer training workshops

Year	Target	Actual
2008	200	240

Output #5

Output Measure

Number of existing and future nutrient management planners and educators trained

Year	Target	Actual
2008	400	180

V(G). State Defined Outcomes

O No.	Outcome Name
1	Number of certified organic farms
2	Number of acres of certified organic production
3	Gross income derived from sales of organic products
4	Number of hits on Mid Atlantic Water Quality Website to increase awareness of water quality
5	Increase in the amount of land based on a percent of cropland acres, subject to best management practices (e. g., nutrient management plans, conservation plans, etc.)
6	Percent reduction in the transport of N, P, and sediment to the Chesapeake Bay and its tributaries.
7	Percent increase in gross income from non-organic farming agriculture
8	Increase in percent of cropland acres managed with reduced tillage to improve water conservation
9	Number of socially disadvantaged farmers who apply for and participate in USDA farm programs
10	Number of socially disadvantaged, beginning farmers who learn about new alternative enterprises

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

Public Policy changes

Government Regulations

Competing Public priorities

Competing Programmatic Challenges

Brief Explanation

The high cost of feed and inputs for animal and row crop agriculture have adversely affected the relative profitability of these industries. This has had a major impact on the overall profitability of agriculture in Virginia. A severe drought has also affected nearly all agricultural systems in the state in 2008.

V(I). Planned Program (Evaluation Studies and Data Collection)

1. Evaluation Studies Planned

Before-After (before and after program)

During (during program)

Case Study

Other (VDAC Statistics)

Evaluation Results

See outcomes section

Key Items of Evaluation