

Soil, Water and Air Systems-OARDC Led

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V(A). Planned Program (Summary)

1. Name of the Planned Program

Soil, Water and Air Systems-OARDC Led

V(B). Program Knowledge Area(s)

1. Program Knowledge Areas and Percentage

KA Code	Knowledge Area	%1862 Extension	%1890 Extension	%1862 Research	%1890 Research
101	Appraisal of Soil Resources	10%		10%	
102	Soil, Plant, Water, Nutrient Relationships	40%		30%	
111	Watershed Protection and Management	20%		20%	
112	Watershed Protection and Management	20%		20%	
133	Pollution Prevention and Mitigation	0%		10%	
141	Air Resource Protection and Management	10%		10%	
	Total	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	0.0	0.0	6.9	0.0
Actual	0.0	0.0	6.8	0.0

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

Extension		Research	
Smith-Lever 3b & 3c	1890 Extension	Hatch	Evans-Allen
0	0	657462	0
1862 Matching	1890 Matching	1862 Matching	1890 Matching
0	0	852488	0
1862 All Other	1890 All Other	1862 All Other	1890 All Other
0	0	0	0

V(D). Planned Program (Activity)**1. Brief description of the Activity**

Outputs within this planned program are/will be: 1) online and in print research-based publications targeted to: (a) specific stakeholder groups, (b) support publics such as fellow agencies, political entities, (c) targeted populations, and (d) the broader general public, including mass media releases; 2) peer-reviewed journal articles; 3) commercialized techniques/inventions; 4) non-commercialized techniques/inventions that are distributed to those in need without costs (e.g. wetland construction techniques); 5) intellectual properties; 6) consultation services; 7) meetings with stakeholders and supporters; 8) facilitation of training programs/workshops for other scientists and for specific groups of stakeholders, including international visitors; and 9) planning meetings with advisory groups to communicate findings and plan new research.

2. Brief description of the target audience

Targeted audiences are, but not limited to: 1) Specific individuals or groups who have expressed a need for certain information that is to be derived through new research, extracted from on-going research, or is derived from scientific literature. Often those requests are communicated to OARDC by an intermediary such as a staffer at ODNR or a county extension agent; 2) Fellow agencies or support organizations that will not only use the information but will also be brokers of that information, including embedding it into groups to encourage change; 3) Populations who have not requested the information but will likely benefit from that information, e.g. immigrant populations; 4) Other scientists and scientific groups; 5) Political entities; 6) Extension personnel; 7) Students from pre-school to post doctorate studies; 8) News organizations; and 9) Business groups such as chambers of commerce and community coalitions.

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	0	0	0	0
2007	0	0	0	0

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

Year	Target
Plan:	0
2007:	0

Patents listed**3. Publications (Standard General Output Measure)****Number of Peer Reviewed Publications**

	Extension	Research	Total
Plan			
2007	0	44	0

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

¿peer-reviewed publications will be tracked in terms of name and tier of journal, as well as record of citations of the article;

Year	Target	Actual
2007	12	44

Output #2**Output Measure**

¿commercialized techniques will be tracked as to purchaser, number of adoptions, and by whom;

Year	Target	Actual
2007	1	0

Output #3**Output Measure**

¿non - commercialized techniques will be tracked as to number of adoptions, and by whom;

Year	Target	Actual
2007	1	0

Output #4**Output Measure**

¿patents by number and who partnered/purchased/commercialized;

Year	Target	Actual
2007	0	0

Output #5**Output Measure**

¿consultations by recipients and in what areas;

Year	Target	Actual
2007	25	20

Output #6**Output Measure**

¿training program by how many of what type of stakeholder participated in what type of program; what non-OARDC organization helped to lead the training;

Year	Target	Actual
2007	100	300

Output #7**Output Measure**

¿planning meeting participation as to who(non-OARDC) participated at what level to help take a research project to the next level;

Year	Target	Actual
2007	3	6

Output #8**Output Measure**

¿ number of graduate students completed, their research areas, and the positions of employment they hold.

Year	Target	Actual
2007	2	8

Output #9**Output Measure**

x

Year	Target	Actual
2007	{No Data Entered}	0

V(G). State Defined Outcomes

O No.	Outcome Name
1	Continue to advance soil, water, nutrient, and plant research to ensure Ohio continues to be one of the top five states in corn and soybean production and has knowledge to support growing niche market agriculture, organic farming and biobased products.
2	Provide the necessary research finding (scientific knowledge and techniques) to support stakeholders' compliance with Ohio and federal EPA regulations, and future regulations, regarding odors and other air quality issues in ag production and processing.
3	Expand watershed and ecosystem level modeling to the extent that scientific data and watershed management protocols can bring all streams effected by agriculture and natural resource runoff into compliance with Ohio EPA standards.
4	Through the provisioning of watershed specific data, support the creation of and conservation action of community-based watershed networks in each major watershed in Ohio.
5	Advance the basic knowledge contribution so that Ohio continues to be viewed as a center of excellence in terms of soils and water sciences, and associated extension programming.
6	Track publications, developed techniques, consultations, OARDC sponsored training, and other forms of OARDC outputs for stakeholder use to assess level of adoption and impact with a goal of shifting more sectors into early adoption.
7	Develop all research projects with external input with a clear goal of commercialization of findings and job growth/economic activity for each project; where not possible, develop for non-commercial early adoption by one or more stakeholders/groups.
8	Support the mapping of county level soils with a target of three new counties per year
9	Provide the necessary soil and water research, in conjunction with actions in other planned programs KA (e.g. IPM), to permit continued adoption of conservation tillage practices in the face of problems such as climatic changes, pest, etc.
10	Advance carbon sequestration research to the point that Ohio farmers can enter the carbon trading market.
11	Knowledge of understanding and mitigating the bioavailability of heavy metals in soil and water is of major concern to a cross section of society from agriculture industries, to regulators, to the consumer.
12	Application of biosolids to landscapes has been practiced for centuries. Federal and state guidelines, policies, and laws evolved in the mid to late 20th century that provided for safe application of biosolids. Continued research is needed to inform regulatory decisions and assess impacts.

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
- Populations changes (immigration, new cultural groupings, etc.)
- Other (extramural funding)

Brief Explanation

Weather and economy, including extra mural funding had the most impact.

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

1. Evaluation Studies Planned

- Before-After (before and after program)
- During (during program)
- Case Study
- Comparison between locales where the program operates and sites without program intervention

Evaluation Results

{No Data Entered}

Key Items of Evaluation

{No Data Entered}