On-Farm Water Management Program Update

Water Resources Board March 26, 2018



To Protect and Enhance Kentucky's Environment



Program Status

Memorandum of Understanding Approved

Approved by ADB on March 16, 2018

On Farm Water

Management Program

Committee Formed



ABD Reps: Fritz Giesecke, Pat Henderson, Al Pedigo

WRB Reps: Steve Coleman, Kevin Jeffries, John Dix

First Project
Application Review
Scheduled April 20,
8:30am





Project Memorandum of Understanding

MOU with ADB

- On-Farm Resiliency Program
 - Research, Development
 & Demonstration (RDD)
 Farms
 - PracticalImplementation Project(PIP) Farms

- Planning & Water Management
- Groundwater Monitoring
- Mesonet & Gaging
- Water Quality Monitoring and Assessments



Project Memorandum of Understanding

MOU with ADB

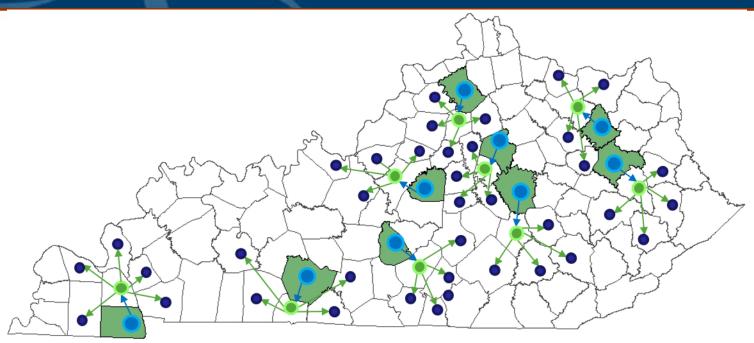
- On-Farm Resiliency Program
 - Research, Development& Demonstration (RDD)Farms
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Program Budget 2018-2019



Research, Development and Demonstration (RDD) Farms	Max of \$400,000 in ADB Funds
Project Implementation Projects (PIP) Farms	Max of \$600,000 in ADB Funds

Total \$1,000,000



Next Steps: Technical Advisory Group

Technical Advisory Group (TAG):

- Dale Booth (DOW)
- Steve Higgins (UK)
- Bill Caldwell (DOW)
- Paulette Akers (DOC)
- Kari Johnson (DCA)
- Jory Becker (DOW)
- Biff Baker (GOAP)
- Steve Doan (GOAP)
- Additional experts as needed

Applicants will be referred to the TAG by the Ag Development Board

TAG Responsibilities:

- Arrange site visits to evaluate suitability of operation for program
- Assist with application, as requested
- Evaluate application for completeness, eligibility
- Provide recommendations to the On-Farm Water Management Committee



Next Steps: Application Process

Tech Advisory Group

On-Farm Water
Management
Committee

("Water" Committee)

WRB Reps: Steve Coleman, Kevin Jeffries, John Dix

ABD Reps: Fritz Giesecke, Pat Henderson, Al Pedigo

Water Committee Responsibilities

Meet Quarterly or as needed

Evaluate applications based on recommendations from the TAG, overall project merits, budget, known concerns

Communicate with the WRB about pending applications

Recommend projects for funding

Current Applications Under Consideration

Morehead State University Farm Project (KDOW)

Planned BMPs	Cost Estimate		
Water Harvesting	\$50,00		

<u>Item</u>	Total Item Cost	KADB Funds Requested
Land based (pond) water harvesting and distribution systems for livestock	\$25,216	\$25,216
Hog gestation house evaporative cooling water harvesting system	\$8,146	\$8,146
Water harvesting systems for livestock consumption at bull barn	\$13,736	\$13,736
Greenhouse evaporative cooling system water harvesting system	\$2,902	\$2,902
Budget Totals:	\$50,000	\$50,000

Application is complete and ready for evaluation by the Water Committee. Could be presented to ADB by April 20.



Current Applications Under Consideration

Initial (TAG) Site Evaluations are being arranged for:

- Henderson Farm and Settlement (Frakes, KY)
- Star Hill Farm, Maker's Mark Distillery (Loretto, KY)



WRB Strategic Planning





Water Resources Board Strategic Plan 2018-2021

The mission of WRB is to promote actions that help to solve water resources challenges faced by Kentucky's agricultural and rural communities.

The **vision** of the WRB is a Kentucky with agricultural and rural communities that are more resilient by using water resources to the fullest extent to which they are capable.

Goals and Strategies:

- Provide leadership in identifying and mitigating deficiencies in Kentucky's water resources.
 - a. Identify opportunities to develop new sources for agricultural and rural water supply
 - b. Promote improvements in agricultural water efficiency, retention, conservation and quality
 - Conduct assessments and make recommendations to improve the capacity and resiliency of rural water treatment and delivery systems
- Engage in research and planning initiatives that address the long-term sustainability of Kentucky's water resources.
 - a. Assess the availability of water supplies for future uses
 - Conduct needs assessments based on demand projections under different economic or climatic scenarios
 - c. Identify emerging or potential future water supply issues facing agricultural and rural communities
 - d. Develop recommendations to enhance the effectiveness of the state drought plan
- Communicate findings and recommendations to the General Assembly, and agricultural and rural communities.
 - a. Develop recommendations for consideration by the General Assembly, state and local agencies, landowners and citizens for the wise use and management of water resources
 - b. Develop water resources best management practices, guidance and provide technical assistance
 - Support the development of communication platforms to present data that is useful and easily understood
- 4. Facilitate the establishment and maintenance of water data collection networks.
 - a. Identify deficiencies in data necessary for planning and management of water resources
 - b. Develop financial needs assessments that sustain long-term water data collection networks
 - c. Build public support for and investment in water data collection networks

Goal Area: Mitigation of Water Supply Deficits

Goal: Provide leadership in identifying and mitigating deficiencies in Kentucky's water resources.

Problem Area: Water supply deficits can adversely impact individuals, communities and economic sectors.

Statement of Need: There is a need to develop and implement mitigation actions in areas that are prone to water supply deficits. Deficits may be the result of periodic drought or of a lack of readily available water in sufficient quantities to satisfy demand.

WRB Impact: The Water Resources Board provides leadership to identify vulnerabilities and facilitate actions that reduce the incidence of water supply deficits in agricultural and rural communities.

Strategies/Action Items:

Strategy 1: Identify opportunities to develop new sources for agricultural and rural water supply.	Resources Needed	Timeline	Persons Responsible	Outputs and indicators of results
a. Create an inventory of water resources to determine areas/sources of surplus for additional water supply	Staff Time			GIS database and mapping
b.				
c.				
Strategy 2: Promote improvements in agricultural water efficiency, retention, conservation and quality	Resources Needed	Timeline	Persons Responsible	Outputs and indicators of results
a. Develop a Kentucky On-Farm Water Management Program	Matching Funds Staff Time		Dale Booth, DOW Bill Caldwell, DOW	

