

**Water Resources Board Meeting
November 28, 2016
1:00 PM EDT
Training Room C
300 Sower Blvd
Frankfort, Kentucky 40601**

1. Call Meeting to Order and Roll Call of Board Members
2. Introduction of Guests
3. Minutes of October 31, 2016
4. Review and Ranking of Project Profiles
5. State Water Plan Committees Report
6. Open Discussion for Board Members
7. Public Comment Period
8. Next Meeting February 02, 2017 (following the Ag Water Quality Authority Meeting)

**Water Resources Board
Draft Meeting Minutes
November 28, 2016**

Board Members in Attendance: Earl Bush (County Judge Executives); Steve Coleman (KY Farm Bureau); Lloyd Cress, Jr. (KY League of Cities); John Dix (KRWA); Kevin Jeffries (Soil and Water Conservation Districts); Ryan Quarles (Commissioner Dept. of Agriculture); Kevin Rogers (KY Chamber of Commerce); Charles Snavely (EEC Secretary)

Board Members Absent: Dr. Nancy Cox (UK); Jared Carpenter (LRC); Tom McKee (LRC);

Others in Attendance: Brent Burchett (KDA); Biff Baker (GOAP); Jory Becker (DOW); Warren Beeler (GOAP); Joe Cain (KYFB); Bill Caldwell (KDOW); Peter Goodmann (Director DOW); Samantha Kaiser (DOW); Jim Kipp (KWRRI); Gary Larimore (KRWA); Chip Zimmer (DOW)

The meeting began at 1:05 p.m.

Call Meeting to Order and Roll Call of Board Members

Secretary Snavely called the meeting to order and led the roll call of Board members.

Introduction of Guests

Guests introduced themselves.

Chip Zimmer gave an update on the drought issues that Kentucky is experiencing. Conditions have continued to decline and most of the state is in a D₂ or D₃. The agricultural community has been hit hard with possible hay shortages and water usage shortage. The future forecast is calling for rain, which will help, but not end the drought.

Commissioner Quarles made the Board aware of Kentucky Department of Agriculture's (KDA) Hay/Forage Sales Directory, <http://www.kyagr.com/buyky/hay-search.aspx>, and the Hay Hotline, <http://www.kyagr.com/marketing/hay-hotline.html>.

Bill Caldwell discussed the La Nina, which is supported by empirical data, in the spring and an early summer drought.

Minutes of October 31, 2016

The meeting minutes from October were approved by consensus.

Review and Ranking of Project Profiles

Mr. Caldwell reviewed the project profile ranking results with the Board. A State Water Plan Initial Project Profile, DOW-1, ranked at the highest priority with the Kentucky Groundwater Observation Network, KGS-1, and the Kentucky Mesonet Station Acquisition and Installation, WKU-1, in second and third place. Only half of the Board members have submitted their rankings.

The Board agreed that KGS and USGS data need to be compatible and these two agencies need to explore this possibility. Multiple projects can be pursued at once depending on when funding becomes available. Projects do not need to be pursued in order of ranking if funding is available. Once sources of funding are identified the Board should make a plan to move forward as the primary applicant or co-applicant.

Motion: (Steve Coleman) To move forward with projects and receive funding once available.

Second: (Kevin Jeffries)

Vote: Unanimous

A collaborated effort to compile current data and resources from farmers across the state should be made, to close current gaps in data from each of the project profiles.

State Water Plan Committees Report

The Board received the State Water Plan Initial Project Profile document. Mr. Caldwell briefly reviewed the document.

In order to proceed with the State Water Plan, data from subsequent project profiles will be needed. When developing the State Water Plan, Kentucky will view Water Plans from other states that could match Kentucky's need. DOW will start reviewing current literature and other state Water Plans and send them to the Board for review.

Open Discussion for Board Members

The two sub-committees of Data Management and Road Mapping were reviewed. The Board would like to keep these sub-committees smaller. Once the groups meet, additional individuals may be identified to fill knowledge gaps. Sub-committee kick-off meeting will take place in 2017.

The Board indicated interest in a presentation on funding sources for the next meeting to discuss the differences between State Cost Share Funds (SCS) and State Revolving Funds (SRF), one time funding sources versus reoccurring funding sources, and funds available from sources that wouldn't normally be considered (e.g. FEMA, Water Infrastructure, etc.).

The Board should discuss the option of updating legislation on current progress.

Public Comment Period

No public comments were made.

Next Meeting February 02, 2017 (following the Ag Water Quality Authority Meeting)

At the next meeting the Board will decide how frequently meetings will take place. The Board would like to discuss the option of choosing one reoccurring day and time for scheduling purposes or using Doodle Poll again.

The meeting ended at 2:40 p.m.

**Water Resources Board
Meeting Minutes
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STATE WATER PLAN INITIAL PROJECT PROFILE

A state water plan will be built upon a series of technical studies or tools. These will be designed to provide decision makers with the necessary data to conceive, develop, prioritize and implement measures that will address existing water supply issues and create a vision for future water resources development for the Commonwealth. Two fundamental areas of technical study are proposed that will be complemented by several lesser projects that together will provide a basis for developing a state water plan (see attached presentation from the October Board meeting for process overview).

Water Availability

A statewide water availability assessment will be performed at a planning unit level to inventory the regional water sources and assess annual and seasonal surplus and deficit based on hydrological records, models or other methods and known withdrawal and instream flow demands.

Demand Forecasting

Projecting future water demands for water supply, agriculture, industry, mining, energy production and other needs is a key part of developing a long-term vision for the state's water resources. Reliable projections for water demands combined with a water availability assessment will be used to identify gap areas where water demands may exceed supply, serving as the basis for water plan development.

Other related projects and studies

Drought Risk Assessment: a drought risk assessment will be developed by the Division of Water in 2017. One of the principal water use sectors included in the assessment will be agricultural drought risk based on regional vulnerability to drought in crop and animal production operations. Data from this assessment may inform both the Water Availability and Demand Forecasting technical studies. This project is funded by a grant from FEMA.

Aquifer Designation: developed for all regulated groundwater withdrawals in Kentucky , or for a region in a pilot study. Data and methods developed for this study are expected to contribute to more detailed characterization studies of aquifers that are or may become high-use aquifers, most notably in the Jackson Purchase area. This study will be proposed as part of a USGS Water Use Data and Reporting grant (WUDR) in cooperation with KGS.

Water Tracking: Tracking the various uses of water that produced by the state's 397 Public water systems (PWS). Treated water is used for domestic, commercial, industrial, mining, agricultural and other purposes. This study will include an assessment of the demands that may be placed on PWS by livestock water demand, especially under seasonal high demand or drought conditions. It is anticipated that this study can be funded by leveraging funds from a WUDR grant with other funding sources.

Water Plan Development and Public Participation: Local/regional stakeholder involvement to shape the water plan's regional priorities.

Estimated Timeline and Budget

Duration: 5 years

Initial scoping for a state water plan will be done by the Technical Data and Plan Development committees of the Water Resources Board.

Budget:

Potential sources of funding at present are Corps of Engineers Planning Assistance Grant, USGS WUDR grant, FEMA Hazard Mitigation Planning Grant and Agricultural Development Fund.

Planning Assistance and Demand Forecasting (non-agricultural) - \$150,000

Agricultural Demand Forecasting - \$100,000

Public Outreach and Stakeholder Involvement - \$100,000

Water Availability - \$150,000

Water Tracking - \$50,000

Miscellaneous Projects (data and model development) - \$100,000

Total - \$650,000

Annual - \$130,000

Data Management

Name	Organization	Email
Bill Caldwell	DOW	Bill.Caldwell@ky.gov
Peter Goodmann	DOW	Peter.Goodmann@ky.gov
Steve Coleman	KYFB	soil1951@yahoo.com
	USGS	
	KGS	
	Foster	
	KRWs	
	KFB	
Todd Griffin	Agriculture Business	
	Economic Forecast/KAWC	
	EDC	
Jon Dix	KRWA	johnd@warrenwater.com
Brent Burchett	KDA	Brent.Burchett@ky.gov
Biff Baker	GOAP	Biff.Baker@ky.gov
	Western KY	

Road Mapping

Name	Organization	Email
	ADDs	
	DNR	
Carey Johnson	DOW	Carey.Johnson@ky.gov
Steve Workman	UKY	Steve.Workman@uky.edu
Kevin Jeffries	SWCD	kevinjeff@bellsouth.net
Rusty Cress	KLC	Rusty.Cress@dinsmore.com
Kevin Rogers	KCC	Kevin.Rogers@amwater.com
Gary Larimore	KRWA	g.larimore@krwa.org
Bill Caldwell	DOW	Bill.Caldwell@ky.gov
Biff Baker	GOAP	Biff.Baker@ky.gov
	Development Board/KIPTA	
Peter Goodmann/Secretary Snively		
<i>John Fischer</i>	EDC	
Kevin Rogers	KCC	
	<i>Waterways Alliance</i>	

Project Profile Ranking Results

Project Profiles	Project Title	Project Duration	Annual Cost	Score	Minimum	Maximum
DOW-1	State Water Plan Initial Project Profile (see separate attachment)	5 year	\$130,000	1.4	1	3
KGS-1	Kentucky Groundwater Observation Network	3 year	\$122,000	2.2	1	3
WKU-1	Kentucky Mesonet Station Acquisition and Installation	5 year	\$45,000	4.8	3	7
WKU-2	Kentucky Mesonet Soil Monitoring	2 year	\$36,000	4.8	2	8
USGS-2	Streamflow Gaging Stations in Critical Areas with Existing Data Gaps	3 year	\$90,000	4.8	1	9
USGS-1	Agricultural and Drought Data Management and Integration Application for Kentucky	1 year	\$40,000	5.8	2	9
UK-1	Stormwater management, Water Harvesting, and the LEAF Program	Variable	\$20,000 - \$130,000	6.3	4	9
WKU-3	Kentucky Mesonet Precipitation Monitoring	2 year	\$124,000	7.3	3	11
KGS-2	A Groundwater Withdrawal Assessment Tool for the Jackson Purchase Region	1 year	\$50,000	7.5	5	11
USGS-3	Water Quality Monitoring Stations to Better Quantify Nutrient Loading from Kentucky	3 year	\$276,000	8.0	3	11
WKU-4	Summaries, Forecasts and Outlooks	2 year	\$200,000	9.2	5	11

