

Kentucky Agriculture Science and Monitoring Committee

KASMC



Origins of KASMC

- Founded in 2009 by NRCS, Kentucky Farm Bureau, Kentucky Division of Conservation, and USGS.
- More issues today with fewer resources available
- We don't have the resources to solve these issues alone, but our missions are complementary
- “Company hats” come off in the room – we focus on the science and monitoring needs of Kentucky agriculture

KASMC - Subcommittee of AWQA

Within a year of being formed, KASMC was adopted as one of the subcommittees of the Kentucky Agricultural Water Quality Authority (AWQA).

KASMC assists the AWQA in their mission by promoting and providing (as possible) a sound science-based foundation for the AWQA decision makers; KASMC does not, however, play a role in any regulatory decisions or actions.

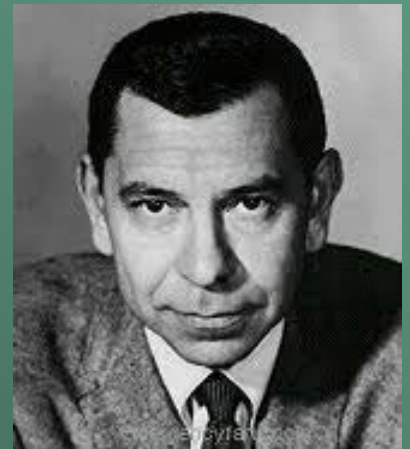
KASMC is NOT regulatory

KASMC promotes unbiased, defensible, science and monitoring. Fundamental science practices and ethics are first and foremost!!

Science and monitoring promoted by KASMC MUST:

- have adequate quality assurance / quality control,
- be fully documented,
- be reproducible,
- be transparent.

Just the facts...



KASMC membership –

25 current KASMC member-organizations with new members coming on board continually!

- Natural Resources Conservation Service
- Governor's Office of Agricultural Policy
- US Environmental Protection Agency
- University of Kentucky - College of Agriculture
- Kentucky Geological Survey
- Kentucky Division of Conservation
- Kentucky Corn Growers Association
- Kentucky Farm Bureau
- Kentucky Rural Water Association
- USDA - Agricultural Research Service
- Kentucky Department Of Agriculture
- Kentucky Division of Water
- US Geological Survey
- Ohio River Valley Water Sanitation Commission
- Kentucky State University
- Murray State University
- Kentucky Livestock Coalition
- The Nature Conservancy
- Kentucky Soybean Board
- Agribusiness Association of Kentucky
- Kentucky Certified Crop Advisor
- US Fish and Wildlife Service
- Monty's Plant and Soil Products
- Breathitt Veterinary Center
- Watershed Watch in Kentucky, Inc.

KASMC – Working to better connect with producers in 2015!

KASMC is beginning to contact and work through the county extension agents to present science and monitoring data and to help ensure KASMC promoted science and monitoring activities are relevant to real-world issues.



A serene winter landscape featuring a narrow, snow-covered path that leads towards a calm body of water. The path is flanked by bare, snow-laden trees and bushes. The water in the foreground is still, creating a clear reflection of the trees and the sky. The overall atmosphere is quiet and peaceful.

Active KASMC member-promoted Projects

You'll hear about some of these today!

KASMC promoted collaboration – Shawnee-hills study site



Brad Lee – Univ. of Kentucky,
Lexington, KY

Tanja Williamson – USGS,
Louisville, KY

Samuel Indorante – Southern
Illinois Univ., Carbondale, IL

Phillip Owens –Purdue Univ., West
Lafayette, IN

Zamir Libohova - NRCS-NSSC,
Lincoln, NE

Matt McCauley – NRCS,
Owensboro, KY

Philip Schoeneberger –NRCS-
NSSC, Lincoln, NE

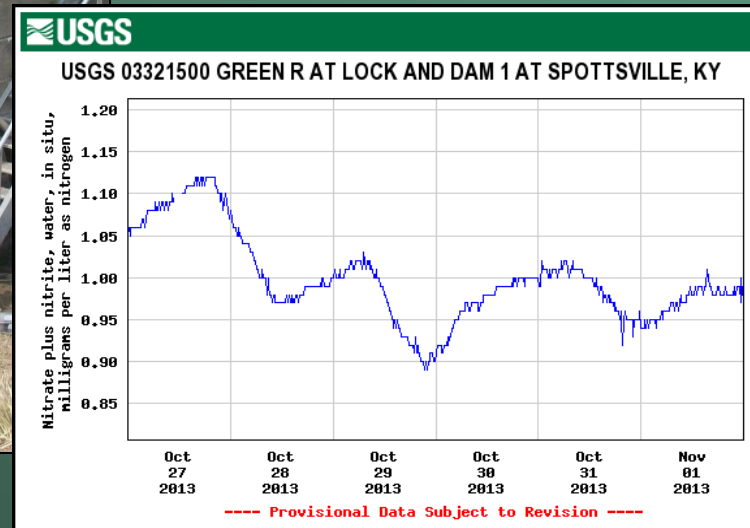
Mike Wilson - NRCS-NSSC,
Lincoln, NE

John Kabrick - USDA-FS,
Columbia, MO

KASMC promoted collaboration – Green River / Greenup monitoring stations



- Governor's Office of Agricultural Policy
- Kentucky Corn Grower's Association
- US Geological Survey



KASMC promoted collaboration – Kentucky State University Demonstration Gage



- Kentucky State University
- US Geological Survey



KASMC Communication and outreach

KASMC Kentucky Agriculture Science and Monitoring Committee

"Dedicated to coordinating agricultural science and monitoring efforts in Kentucky
in order to promote sustainable farming and a healthy environment"

KASMC Partners

- Natural Resources Conservation Service
- Governor's Office of Agriculture/Policy
- US Environmental Protection Agency
- University of Kentucky - College of Agriculture
- Kentucky Geological Survey
- Kentucky Division of Conservation
- Kentucky Corn Growers Association
- Kentucky Farm Bureau
- Kentucky Forest Water Association
- USDA - Agricultural Research Service
- Kentucky Department of Agriculture
- Kentucky Division of Water
- US Geological Survey
- Ohio River Valley Water Transportation Commission
- Kentucky State University
- Murray State University
- Kentucky Livestock Coalition
- The Nature Conservancy
- Kentucky Soybean Board
- Agricultural Association of Kentucky
- Kentucky Certified Crop Consultant
- US Fish and Wildlife Service
- Kentucky Plant and Soil Institute
- Breathitt Veterinary Center

Expertise



Collaboration



The Kentucky Agriculture Science and Monitoring Committee (KASMC) was created in 2009 and now includes over 20 members representing a wide range of state, federal, and local agencies as well as academic institutions and the agricultural industry. Membership continues to expand along with KASMC as new members are continually being added. KASMC members work collectively to coordinate resources and expertise in order to address the agricultural science and monitoring needs of the citizens of Kentucky by providing information to help resource managers steer Kentucky's agricultural policies in that role.

KASMC Kentucky Agriculture Science and Monitoring Committee

"Dedicated to coordinating agricultural science and monitoring efforts in
Kentucky in order to promote sustainable farming and a healthy environment"

Kentucky Agriculture Science and Monitoring Committee (KASMC) was created in 2009 and now includes over 20 members representing a wide range of state, federal, and local agencies as well as academic institutions and the agricultural industry. Membership continues to expand along with KASMC as new members are continually being added. KASMC members work collectively to coordinate resources and expertise in order to address the agricultural science and monitoring needs of the citizens of Kentucky by providing information to help resource managers steer Kentucky's agricultural policies in that role.

KASMC Members – working together for Kentucky!



Kentucky Agriculture Science and Monitoring Committee (KASMC) –
3-year cooperative scope of work and work plan (2015-2017)



KASMC
Kentucky Agriculture Science and Monitoring Committee

Dedicated to coordinating agricultural science and monitoring efforts in Kentucky in order to promote sustainable farming and a healthy environment.

Partners

- Natural Resources Conservation Service
- USGS
- US Environmental Protection Agency
- University of Kentucky - College of Agriculture
- Kentucky Geological Survey
- Kentucky Division of Conservation
- Kentucky Corn Growers Association

Landowner Conservation Planning Tools

- The Kentucky Agriculture Water Quality Act Database
- Kentucky Agriculture Water Act Information
- Natural Resources Conservation Service Technical Service Provider Registry
- Online Permitting Information System
- Kentucky Division of Conservation
- Kentucky Agricultural Water Quality Plan
- NRCS National and State Management
- NRCS Conservation District Database (Nutrient Management (AC) Code 590) (PDF)

Agricultural and Water-Quality Resources

- US Department of Agriculture
- Economic Research Services
- Farm Service Agency Conservation Programs
- The Census of Agriculture - 2002
- US Environmental Protection Agency
- Ground Water and Ecosystems Restoration Research
- Field and Soil Science Research Program
- Conservation Services Research Program
- Agriculture, Storm, and Soil
- Soil Your Watershed
- US Geological Survey
- Toxic Substances Hydrologic Program
- National Water Quality Assessment (NWQA) Program

Farm Ponds Resources

- Links in Kentucky (USDA - Kentucky Natural Resources Conservation Service)
- Dam Construction (Kentucky Division of Water)
- Books - Planning, Design, Construction (USDA - NRCS) (PDF)

Discovery Farms

- USGS Discovery Farms
- North Dakota Discovery Farms
- USDA Wildlife Discovery Farms

July 2013 Executive Meeting Presentations

- The Watershed Approach and KASMC (Frank Baker - EPA)
- Kentucky Conservation Land (Chris Taylor - KGS)
- Kentucky's Nutrient Reduction Strategy (Pamela Allen & John Webb - KGS)
- Combining Kentucky Nitrogen and Phosphorus Index (Mark Ferguson - USGS)
- Ohio River Basin Water Quality Trading Project (Greg Youngstrom - USGS)
- On the Road to Clean Water (Amanda Gumbert & Steve Higgins - University of Kentucky)
- Understanding the Role of Water Quality in Agriculture in Kentucky (Lee Andrews - Kentucky Ecological Services Field Office, USGS)
- USGS Kentucky Hydrologic Monitoring Networks (Mike Griffin - USGS Kentucky Water Science Center)
- Water Quality Trends in the South Fork Little River Basin, KY (Angie Green - USGS Kentucky Water Science Center)
- Environmental and Water Programs at Kentucky State University (Dr. Nathan Stalinger - KSU)

April 2012 Executive Meeting Presentations

- Overview and the Need to Quantify Kentucky 2012
- Development of Numerical Indicators of Kentucky's Nutrient Status (Quality Standards for Nutrients (QSNs))
- Conservation, Innovation, Growth (Cheryl Dicks)
- Ohio River Basin Water Quality Trading Project (USGS)
- Evolution of the Kentucky Phosphorus Index and Potential Ways to Improve It (USGS)
- Environmental Effects of Agricultural Practices (USGS)

Data and Resources

- USDA National Agriculture Library of Databases
- Kentucky Department of Agriculture
- Kentucky Water Science Center - Water Resources Program
- Online Permitting Information System
- Kentucky Cooperative Extension Service
- Kentucky Agricultural Experiment Station
- American Society of Agronomy
- Kentucky Division of Water (KDW)
- KASMC Program Sheet
- Executive Order of Agriculture-related research sites in Midwestern United States

"Google" KASMC or go to: <http://go.usa.gov/W7VP>