



Implementation and Experiences of NAQSAT Around the US

May 20, 2016

2:30 pm (eastern), 1:30 pm (central), 12:30 pm (mountain), 11:30 am (pacific)

The National Air Quality Site Assessment Tool (NAQSAT) is designed for voluntary use by producers and planners to assess opportunities for reducing air emissions around a livestock or poultry operation. The NAQSAT is continually updated with accurate, credible data, and provides the opportunity to investigate tradeoffs in mitigation strategies among various air pollutants and between management categories on the farm. Recently, NAQSAT was incorporated in the USDA Natural Resource Conservation Service guidance to assist in resource concern identification and conservation planning efforts. The webinar will provide an overview of the tool, the national instructions from NRCS, and what we are learning from the on-the-ground training. *An application for continuing education credit for Certified Crop Advisors (CCAs) and members of the American Registry of Professional Animal Scientists (ARPAS) has been submitted.*



Dr. Shawn Archibeque, a ruminant nutritionist, began his scientific training and education as a ruminant nutritionist at North Carolina State University. He continued his education at Texas A&M with Dr. Stephen Smith, an expert in adipose development of livestock species. Shawn conducted research with the meat science components of beef cattle production, and it enabled him to apply cellular and enzymatic-based mechanisms for describing nutritional manipulations of beef carcass quality. Dr. Archibeque was employed at the USDA Meat Animal Research Center as a postdoc Research Associate under the guidance of Dr. Calvin Ferrell. Shawn's program was focused on manipulating dietary regimens to optimize nutrient utilization and minimize negative environmental impacts of animals housed in confined feeding operations. Today, Shawn spends 45% of his time teaching, 40% of his time in research, and 15% of his time in outreach.

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Gerald May is a private consultant who works with individuals interested in contract swine production in Michigan. He provides advice on site selection, manure nutrient utilization, cash flow projections and financing. Jerry is also the education coordinator for the NRCS National Air Quality Site Assessment Tool (NAQSAT) regional training program. He is retired from Michigan State University Extension. While with Extension, his education programs focused on odors and air emissions from livestock facilities and manure nutrient utilization. He received his B.S. and M.S. degrees from Michigan State University and is a member of the American Society of Agricultural and Biological Engineers and the USDA Agricultural Air Quality Task Force. Jerry resides on a small farm in St. Louis, Michigan. Email: mayg@msu.edu



Greg Zwicke is an Air Quality Engineer with the USDA-NRCS Air Quality and Atmospheric Change Team, specifically tasked with developing technology, training, and tools for air quality issues related to animal agriculture. Greg grew up on a small farm and ranch operation near New Berlin, TX (about 30 miles east of San Antonio), and utilizes his farming background and agricultural air quality engineering education to promote a common-sense approach to addressing agricultural air quality issues. He is focused on improving the agency's understanding of agricultural air quality, especially as it relates to animal operations. After receiving his B.S. and M.S. degrees in Agricultural Engineering from Texas A&M, Greg spent nearly seven years working for an air quality consulting firm assisting industrial facilities across the U.S., including those in the agriculture and forest products industries, with air quality regulatory compliance issues prior to joining NRCS in 2005. He is a registered Professional Environmental Engineer in Virginia, a member of the American Society of Agricultural and Biological Engineers, and is currently pursuing a Ph.D. at Colorado State University. Phone: (970) 295-5621; Email: greg.zwicke@ftc.usda.gov

How Do I Participate?

On the day of the webcast, go to www.extension.org/58813 to download the speaker's power point presentations and connect to the virtual meeting room. First time viewers should also follow the steps at: www.extension.org/8924.

For More Information

* NAQSAT website: <http://naqsat.tamu.edu/>

* Link to NRCS National Instruction 190-309 regarding the NRCS use of NAQSAT: <http://tinyurl.com/NRCS190-309>

* Links to species-specific NRCS webinars on the NRCS use of NAQSAT:

Dairy: <http://www.conservationwebinars.net/webinars/naqsat-conservation-planning-dairies/?searchterm=None>

Swine: <http://www.conservationwebinars.net/webinars/naqsat-conservation-planning-swine/?searchterm=None>

Poultry: <http://www.conservationwebinars.net/webinars/naqsat-conservation-planning-poultry/?searchterm=None>