

NRCS Air Quality Update

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AAQTF
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Topics

- ✓ AQAC Team
- ✓ GHG Pilot Initiative
- ✓ AQAC Conservation Standards
- ✓ National Engineering Handbook
- ✓ Comet-VR
- ✓ Rapid Soil Carbon Assessment
- ✓ Training Courses

Topics

- ✓ NRCS Conservation Delivery Streamlining Initiative
- ✓ Review of Regulations

Air Quality Atmospheric Change Team

Dr. Adam Chambers – GHG/Carbon Expert

GHG Pilot Initiative

✓ USDA (principally NRCS and FSA) will be announcing some type of GHG initiative in the coming month that will most likely feature cost-share for on-farm greenhouse gas-benefitting practices, as well as possible Conservation Innovation Grants aimed specifically at fostering local to regional carbon markets.

AQAC Conservation Practices

- ✓ *Air Filtration and Scrubbing (371)*
- ✓ *Combustion System Improvement (372)*
- ✓ *Dust Control on Paved Roads (373)*
- ✓ *On-Farm Equipment Efficiency Improvements (374)*
- ✓ *Dust Control from Animal Activity on Open Lot Surfaces (375)*

Revision of Nutrient Management Conservation Practice Standard (590)

- ✓ Draft to is completed
- ✓ Review in October
- ✓ Adaptive Management
- ✓ Precision Agriculture
- ✓ Better N & P fertilizer management
- ✓ Clarification on Phosphorus Management

Engineering Handbook Additions

✓ *The NRCS National Engineering Handbook will feature five new chapters of Air Quality, and will be released over the coming few months:*

- ✓ *Introduction/Overview of Air Quality*
- ✓ *Particulate Matter*
- ✓ *Greenhouse Gases and Carbon Sequestration*
- ✓ *Odors*
- ✓ *Ozone*

COMET-VR and C-Farm

- ✓ New version, 2.0 of COMET-VR—just released!
- ✓ www.comet2.colostate.edu
- ✓ Features new scenarios for agroforestry, orchards and vineyards
- ✓ Also provides estimates of nitrous oxide emissions (N_2O)

Rapid Soil Carbon Assessment

- ✓ One of the Chief's top priorities
- ✓ Over 30,000 soil pits to be sampled in FY11 nationwide to 1 m depth
- ✓ Statistically reliable data for management systems within land uses within soil groupings
- ✓ Will aid assigning carbon benefits to conservation practices
- ✓ Will provide data for modelers and carbon traders

AQAC Training Courses in Development

- ✓ **Air Quality and Animal Agriculture**
- ✓ **Why Do We Care About Climate Change?**
- ✓ *In addition to the current 4 AQAC courses released in in past year*

NRCS Conservation Delivery Streamlining Initiative

- ✓ Significant effort in the agency to streamline conservation efforts and associated technologies, and get field people back into the field
- ✓ Revising air quality related resource concerns (how NRCS does conservation planning)
- ✓ Planning and quality criteria for these new resource concern areas:
 - ✓ Emissions of PM
 - ✓ Emissions of ozone precursors
 - ✓ Odors
 - ✓ Emissions of greenhouse gases

Review of Regulations

- ✓ Significant effort over the past year in reviewing newly proposed EPA regulations regarding GHGs, NAAQS (notably ozone and PM), as well as others (Fire Policy, Exceptional Events, Boiler MACT, etc.)
- ✓ Also, developing guidance for how the agency will help producers in addressing these issues

Questions?

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