



NM Agricultural Production - Some Facts*

- Only 1 of the 33 counties (Doña Ana Co.) is currently nonattainment (for PM₁₀)
 - ▶ Top 10% of U.S. counties for total ag production, total crop production, and total livestock production value
- 6 other counties are previous nonattainment (for 1-hour ozone, TSP, SO₂ and/or CO)
 - ▶ 2 are in the top 25% of total U.S. ag production
 - ◆ Eddy and Lea
 - ◆ Lea County is also in the top 10% of total livestock production
 - ◆ Eddy County is also in the top 25% of total livestock production
 - ▶ 1 more is in the top 50% of total U.S. ag production
 - ◆ San Juan

* Based on 2002 Census of Agriculture and U.S. EPA Nonattainment Data – Does not imply that ag production is the cause of the nonattainment



NM Agricultural Production - Some Facts*

- 14.8% of the total ag production in NM occurred in a nonattainment area
 - ▶ 31.1% of crop production, 10.0% of livestock production
- 29.9% of the total ag production in NM occurred in a nonattainment or previous nonattainment area
 - ▶ 53.5% of crop and 23.2% of livestock production

* Based on 2002 Census of Agriculture and U.S. EPA Nonattainment Data – Does not imply that ag production is the cause of the nonattainment





AZ Agricultural Production - Some Facts*

- All but 1 county (Yavapai) are or were nonattainment for something at some time
- 3 current nonattainment counties are in the top 10% of total U.S. ag production value
 - ▶ Yuma (#16 overall), Maricopa (#20 overall), and Pinal (#42 overall)
- 3 additional nonattainment or previous nonattainment counties are in the top 25% of total U.S. ag production value
 - ▶ Cochise, Graham, La Paz

* Based on 2002 Census of Agriculture and U.S. EPA Nonattainment Data – Does not imply that ag production is the cause of the nonattainment



AZ Agricultural Production - Some Facts*

- 88.6% of the total ag production in AZ occurred in a nonattainment area
 - ▶ 79.3% of crop and 91.7% of livestock production
- 98.4% of the total ag production in AZ occurred in a nonattainment or previous nonattainment area

* Based on 2002 Census of Agriculture and U.S. EPA Nonattainment Data – Does not imply that ag production is the cause of the nonattainment





Agricultural Air Quality Brainstorming





Practices

- AQAC Team has reviewed all existing practice standards for incorporating AQAC criteria and considerations
- AQAC Practice Standards Workgroup helped to identify gaps
 - ▶ New practices developed to address these gaps
 - ▶ NCPS 370 (Atmospheric Resource Quality Management) is revoked
- Always looking for new suggestions and new technologies



New AQAC Practice Standards

- 3 new standards nearly final (awaiting NHCP release)
 - ▶ Air Filtration and Scrubbing (NCPS 371)
 - ▶ Combustion System Improvement (NCPS 372)
 - ▶ Dust Control on Unpaved Roads and Surfaces (NCPS 373)
- 1 new standard just completed internal NRCS review
 - ▶ Dust Control from Animal Activity on Open Surfaces



Air Filtration and Scrubbing

- Reduce air emissions from structures using:
 - ▶ Inertial collectors
 - ▶ Fabric filters
 - ▶ Electrostatic collectors
 - ▶ Wet scrubbers/bioscrubbers
 - ▶ Adsorbers
 - ▶ Biofilters





Combustion System Improvement

- Install, replace and/or retrofit agricultural combustion systems to:
 - ▶ Mitigate actual or potential emissions of PM and NO_x
 - ▶ Improve energy efficiency





Dust Control on Unpaved Roads and Surfaces

- Apply a palliative to an unpaved vehicle traffic surface to control PM emissions from:
 - ▶ Vehicle and machinery traffic
 - ▶ Wind action





Dust Control from Animal Activity on Open Surfaces

- Reducing or preventing emissions of PM from animal activity on open lot surfaces by:
 - ▶ Manure harvesting
 - ▶ Water sprinkling

