

Arizona Planning Guide for Natural Resource Concerns

Air Quality Impacts – Emissions of Particulate Matter (PM) and PM Precursors

Resource Concern Description – Direct emissions of particulate matter such as dust and smoke, as well as the formation of fine particulate matter in the atmosphere from other agricultural emissions - ammonia, NOx, and VOCs - cause multiple environmental impacts, including but not limited to:

- The unintended movement of particulate matter - typically dust or smoke - results in safety or nuisance visibility restriction.
- The unintended movement of particulate matter and/or chemical droplets results in unwanted deposits on surfaces.
- Increased atmospheric concentrations of particulate matter can impact human and animal health and degrade regional visibility.

Planning Criteria –PM and PM Precursor emissions are managed to meet client objectives.

Methods for evaluating resource condition

- Visual Assessment
- Client Interview
- EPA Air Quality Guidelines
- State and County Air Quality Guidelines
- NRCS Agricultural Air Quality Conservation Measures Guide
- Emissions Calculator
- RUSLE2
- WEPS
- Manure Management Planner (MMP)
- Nutrient Budget
- Pesticide planning and mitigation worksheet

Conservation Practices that may be needed as part of a Conservation Management System to achieve Planning

Criteria for this resource concern include those listed here.

309 371	Agrichemical Handling Facility Air Filtration and Scrubbing
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591	Amendments for Treatment of
	Agricultural Waste
366	Anaerobic Digester
372	Combustion System Improvement
328	Conservation Crop Rotation
340	Cover Crop
375	Dust Control from Animal Activity on
	Open Lot Surfaces
373	Dust Control on Unpaved Roads and
	Surfaces
512	Forage and Biomass Planting
595	Integrated Pest Management
441	Irrigation System, Microirrigation
443	Irrigation System, Surface and
	Subsurface
449	Irrigation Water Management
590	Nutrient Management
338	Prescribed Burning
329	Residue and Tillage Management,
	No Till
345	Residue and Tillage Management,
	Reduced Till
442	Sprinkler System
633	Waste Recycling
632	Waste Separation Facility

Waste Storage Facility

Waste Treatment Lagoo

Waste Transfer

Waste Treatment

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634

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