

Air Quality Enhancement Activity-AIR05– Dust Control on Unpaved Roads and Surfaces

Enhancement Description

Use of a dust suppressant on unpaved roads and other surfaces to keep road material in form of aggregates which are large enough to prevent dust generation from normal traffic.

Land Use Applicability

This enhancement is applicable on crop, pasture, range, and forest land.

Benefits

Applying a dust suppressant to unpaved roads and other travel and parking areas will help to keep particulate matter (dust) from being produced by vehicular or other traffic. Transport of particulate matter from unpaved areas to nearby residences or other sensitive areas will be reduced.



Criteria for Applying Dust Palliatives to Unpaved Roads and Other Traffic Areas

1. There must be one or more sensitive areas affected by a dust producing surface.
2. The selected dust suppressant should match conditions of the surface (use information in references as guide).
3. Dust suppressant will be applied at the proper time to begin working effectively, and re-applied as needed to maintain dust control effectiveness at all times.

Documentation Requirements for Applying Dust Suppressants to Unpaved Road and Other Traffic Areas

- Description of the dust palliative application.
- Dates of palliative application.
- Amount of roadway treated.
- Type and amount of palliative applied.



United States Department of Agriculture
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Additional guidance on treating unpaved roads and surfaces with dust suppressant

The area to be treated should be graded and/or smoother before the dust control product is applied.

Suppressant Category	Use Criteria	Example Products for Use
Water absorbing (hygroscopic)	Not recommended for arid or semiarid environments or areas where summer humidity is below 30%. Do not use where shallow groundwater or within 25 ft of a water body.	Calcium chloride liquid or flakes (<i>Dowflake, Liquidow, DustGard</i>) Magnesium chloride (<i>Dust-off, Chlor-tex</i>) <i>Dust Fyghter</i>
Adhesives	Do not use lignosulfonate where runoff can impact aquatic species	<i>DC-22, Dustac</i> Lignosulfonate (<i>CalBinder, Polybinder, RB Ultra Plus, Wesling-120</i>)
Petroleum emulsions	12-25 mm penetration needed	<i>CSS-1, Retain, Duo Prime Oil, Dust Devil, EnivronKleen, Coherex, PEP</i>
Polymer Emulsions		<i>Coherex PM, DC-1000, Eco-Polymer, Marloc, Soil Seal, Terrafirma, Top Shield, SR-400</i>
Bituminous Materials	Do not use where product can run off into any water body	<i>SC-80, SC-250, SC-350, SC-800, Oil Sand</i>
Clay Additive	Compaction after application is needed	Bentonite

Carefully review all label specifications and make sure to adhere to requirements or criteria for environmental protection. Observe all safety precautions and follow manufacturer's directions when handling, mixing, and applying dust suppressants.

No used or new crankcase oil products will be used. The dust suppressant must be purchased and labeled for road dust control