



CONSERVATION ENHANCEMENT ACTIVITY

E373A

**CONSERVATION
STEWARDSHIP
PROGRAM**

Dust suppressant re-application for stabilization

Conservation Practice 373: Dust Control on Unpaved Roads and Surfaces

APPLICABLE LAND USE: Farmstead and Associated Ag Land

RESOURCE CONCERN ADDRESSED: Air Quality Impacts

ENHANCEMENT LIFE SPAN: 1 Year

Enhancement Description

Limit dust emissions by maintaining the surfaces of unpaved roads and areas in a stabilized condition. The periodic re-application of dust suppressants to unpaved surface areas will limit dust generation from vehicle and machinery activities or wind action.

Criteria

- Must be one or more sensitive areas affected by dust producing activities.
- Select a dust suppressant product that is appropriate for the site. Product consideration is based on the surface condition, surface material composition, known problem areas, proximity to sensitive areas and receptors, vehicle daily trips, types of vehicles traveling on the treated surface area, average vehicle speed, climate conditions, and timing of on-farm activities.
- Prior to re-application of any dust suppressant, ensure the condition of the unpaved road and surface area are in good condition. The surface is shaped in a manner that supports water runoff and drainage by removing potholes, washboards, berms, tire ruts, and road surface erosion.

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- Dust suppressants are always re-applied at the proper time to begin working effectively to stabilize an unpaved surface area. Re-apply as needed to maintain dust control effectiveness.
- The enhancement does not apply to solely relying on water application for controlling dust. Water alone generally has little residual effect and is therefore a short-term dust control solution. However, periodic wetting of surfaces treated with dust suppressant products as needed can help to effectively control dust under this enhancement. Do not convey reclaimed or non-potable water in tanks or plumbing used for storing and conveying potable water. Avoid over-application, which can saturate the surface and cause track-out and carryout of mud onto paved roads, tires to rut the unpaved surfaces, and the surface areas to erode and direct unwanted runoff into waterways.
- Identify any environmentally sensitive areas, such as stream crossings, drains and culverts, roadside wetlands or canals, and other unique surroundings. Avoid applying dust suppressants on bridges, over cattle guards, or other structures.
- Depending on the dust suppressant product selected, plan on closing roads or areas during pre-treatment activities, dust suppressant re-application, and post-application to allow time for the dust suppressant product to cure. Restricting traffic limits unsafe driving conditions and reduces any potential of dust suppressant product adhering to vehicles. Placing physical barriers, concrete blocks, closing gates, or taping off areas are examples for restricting traffic. If necessary, notify neighbors, employees, and other uses of planned closures ahead of time.
- All persons shall conduct their work and operations in accordance with proper safety codes and procedures for the type of equipment and operations being performed with due regard to safety of all persons and their property. Always take appropriate safety precautions.
- Follow the manufacturer’s and supplier’s recommendations for the dust suppressant product applied.
- All materials used for dust control must meet federal, state, and local regulations and be applied strictly in accordance with authorized registered uses, label directions, and all other regulations. Such materials will not cause negative impacts to ground and surface water quality and align with EPA and state water quality regulations.



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- Never apply waste oils or any material not intended for use as a dust suppressant.
- Dust suppressant containers shall be properly stored and disposed of in a safe manner according to all ordinance and procedures. Do not burn or bury containers.
- The manufacturer or supplier of a dust suppressant product must provide product information.
- Avoid causing any track-out or carry-out from vehicles leaving the treated surface area and entering paved roadways.

Documentation and Implementation Requirements

Participant will:

- Prior to implementation, identify each unpaved road and surface area covered under this enhancement:

Road/Area Segment	Width (ft)	Length (ft)	Square Feet	Square Yards (sq ft / 9 sq ft)
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
		Totals:		

- Prior to implementation, identify the dust suppressant products and provide product information, such as product contents, manufacturer suggested application and dilution rates, manufacturer performance claims, and recommended reapplication intervals.



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- Prior to implementation and applicable to certified organic farms, verify that the selected dust suppressant product is approved for certified organic with the organic farm certifier.
- Prior to implementation, report the dust suppressant product target re-application rate (gallons per square yard), product dilution rate with water (if applicable), and the total gallons of dust suppressant solution to be re-applied.

Road/Area Segment	Dust Suppressant Product Name	Target Application Rate (gallons product/square yard)	Dilution (gallons of water/gallon of product)	Total gallons of dust suppressant solution to be applied
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
			Total:	

- During implementation, re-apply dust suppressants with a distribution tanker truck designed to produce a uniform application in controlled amounts. The truck may be equipped with a hose and nozzle for applying dust suppressants to inaccessible areas.
- After implementation, the application equipment must be cleaned responsibly. It is preferred that the supplier clean the application equipment at the supplier's yard.
- After implementation, survey the treated areas and note any runoff or excess product or overspray on adjacent vegetation. Examples include any negative effects such as leaf burn or discoloration, animals attracted to or licking the treated surface, or dust suppressant product residues in adjacent drains, culverts, streams, canal banks, etc. Early detection and clean-up minimize any potential for causing adverse impacts to the environment.



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- After implementation, maintain the treated surfaces in a good condition by periodically inspecting the treated surfaces and making repairs when needed. A maintenance application of the dust suppressant product will prolong the treated surface conditions and product effectiveness.
- After implementation, maintain documents including records, plans, receipts, and post-application notes. Maintain notes to include dates and description of any repairs or additional dust suppressant applications as it relates to implementing this enhancement.
- After implementation, make documentation available for review by NRCS to verify implementation of the enhancement.

NRCS will:

- Prior to implementation, provide and explain NRCS Conservation Practice Standard Dust Control on Unpaved Roads and Surfaces (CPS 373) as it relates to this enhancement.
- Prior to implementation, visit the site to measure the square footage of the unpaved roads or areas covered under this enhancement. Subsequent site visits will ensure the treated area is maintained in a stabilized condition.
- Provide technical assistance to the participant as requested.
- After implementation, verify completion by site visits and reviewing records kept during enhancement implementation.

NRCS Documentation Review:

I have reviewed all required participant documentation and have determined the participant has implemented the enhancement and met all criteria and requirements.

Participant Name _____ Contract Number _____

Total Amount Applied _____ Fiscal Year Completed _____

NRCS Technical Adequacy Signature

Date