

**333 – Amending Soil Properties with
Gypsum Products
Implementation Requirements**

Producer: _____
Location: _____
Farm Name: _____

Project or Contract: _____
County: _____
Tract Number: _____

Practice Lifespan – 1 year



Gypsum stockpile in the field for post-harvest application



Practice Purpose(s): (check all that apply)

Improve soil health by improving physical/chemical properties and increasing infiltration of the soil.

Improve surface water quality by reducing dissolved phosphorus concentrations in surface runoff and subsurface drainage.

Improve soil health by ameliorating subsoil aluminum toxicity.

Improve water quality by reducing the potential for pathogens and other contaminants transport from areas of manure and biosolids application.

Description of work:

A map(s) showing all fields planned for Amending Soil Properties with Gypsum Products is attached.

If you have questions about this planned Amending Soil Properties with Gypsum Products practice contact:

Name:		Tel:		Email:	
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NRCS Use Only:

Designed By:	Date	
Checked By:	Date	
Approved By:	Date	

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GENERAL CRITERIA:

Do not apply gypsum products in watersheds where sulfate additions are restricted.

Validation of product: It is the responsibility of the amendment provider to furnish chemical analysis documentation for the product to the producer. The chemical analysis documentation will include the calcium and sulfur content and content of heavy metals and all other potential contaminants listed in table 1. Concentrations of potential contaminants cannot exceed maximum allowable concentrations listed in table 1. In addition, the radium-226 concentration in the gypsum-derived product cannot exceed 10 picocuries per gram (pCi/g).

Flue gas desulfurization (FGD) gypsum that is produced by forced-oxidation wet systems after the removal of fly ash is acceptable for these uses.

The prescribed minimum application rates are based on a calcium sulfate dihydrate equivalency of 100 percent. Application rates for products that are less than 100 percent calcium sulfate dihydrate equivalence should be adjusted accordingly.

SPECIFICATIONS:

Specifications shall be prepared for each field(s) where gypsum products will be applied using a specific rate, time, or method.

Tract/Fields:	
Source of product (e.g., flue gas desulfurization, mined):	
Application Method:	
Rate:	
Timing of Application:	
Sequence of Application with Other Nutrient Materials: (i.e., manures, biosolids, fertilizers)	
Mixing Instructions (when product is mixed with manure prior to field application):	

Required Attachments:

Before application soil analyses demonstrating the need for the amendment.

Chemical analysis of the amendment product.

After application soil and/or plant analyses required to determine the effectiveness of the amendment.

OPERATION AND MAINTENANCE:

- Do not allow livestock access to stacked gypsum.
- Do not resume grazing until rainfall or irrigation has washed gypsum off the vegetation.
- Do not apply gypsum after the soil test calcium level exceeds the maximum level established by the LGU.

Specific Additional Operation and Maintenance

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NRCS Use Only:

PRACTICE CHECKOUT AND CERTIFICATION:

Certifying official completes 'Check Out information'

Recommendation: Attach digital photograph(s) to document practice installation and illustrate practice before and after effects.

CHECK OUT INFORMATION:

Crop Year: _____

CIN # (if applicable): _____

Amount Completed: Number of Fields: _____ Total Acres: _____

* Mark the completed field locations on the conservation plan map.

Remarks:

Certification Statement:

I certify that implementation of this conservation practice is complete, meets criteria for the stated purpose(s), and meets the NRCS conservation practice standard and specifications.

This practice meets NRCS standards and specifications Yes No

Check out and Certification by: _____ Date: _____

Planner/Technical Service Provider Signature