

## Gypsum Application

The first step in deciding whether or not to use gypsum is to define the existing field conditions. This basic knowledge of the complex system of soil, water and plants is necessary when deciding what inputs, including gypsum, will best improve growing conditions. We Energies recommends contacting local county extension agents or agricultural specialists to determine proper gypsum application rates. We Energies gypsum can be applied after harvest or anytime soil conditions allow because it will not burn plants.

**For additional information, visit [www.we-energies.com/environmental/gypsum](http://www.we-energies.com/environmental/gypsum) or contact our Coal Combustion Products team: 414-221-3948**



*Gypsum application at 2 tons/acre (with quarter coin for scale).*

*As We Energies cannot control the final use of its products, there are no warranties expressed or implied regarding the use of We Energies gypsum product in any given circumstances.*



# Agricultural Gypsum

*Energize Your Field*



## Energize Your Field

As part of We Energies' environmental commitment to reduce emissions and maximize the beneficial utilization of coal combustion products, We Energies has installed flue gas desulfurization (FGD) systems that produce a high purity gypsum product. We Energies is making this gypsum product available to Wisconsin farmers.

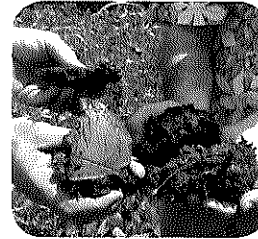
Gypsum, chemically known as calcium sulfate dihydrate ( $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ ), readily dissolves to release calcium ( $\text{Ca}^{+2}$ ) and sulfate-sulfur ( $\text{SO}_4^{-2}$ ) ions into the soil. The purity of We Energies gypsum is consistently >95%.



Land application of FGD gypsum using conventional lime spreading equipment.

**Gypsum is a unique material that works well as a soil amendment and conditioner. Gypsum application to cropland has been shown to:**

- Rehabilitate high sodium, magnesium or aluminum impacted soils
- Reduce surface crusting and improve soil structure
- Improve water infiltration, reducing runoff and erosion
- Improve water holding capacity and root zone conditions for increased drought tolerance
- Loosen compacted and heavy clay soils
- Not change soil pH
- Improve crop yield



Structure improvement between control (left) and gypsum-treated soils (right).



## Advantages of We Energies gypsum:

- Production in southeast Wisconsin reduces cost of delivery to your field
- Higher purity (>95%) supplies more calcium sulfate per ton than natural gypsum
- Fine particle size provides rapid release of calcium and sulfur
- Easily and evenly applied with conventional lime spreading equipment
- Available in bulk

*Licensed by the Wisconsin Department of Agriculture, Trade and Consumer Protection as a soil and plant additive (License No. 65-017311) and approved by Wisconsin Department of Natural Resources.*



Gypsum application to soil on left, corn grown without gypsum on right.