



GYPsuMax[®]

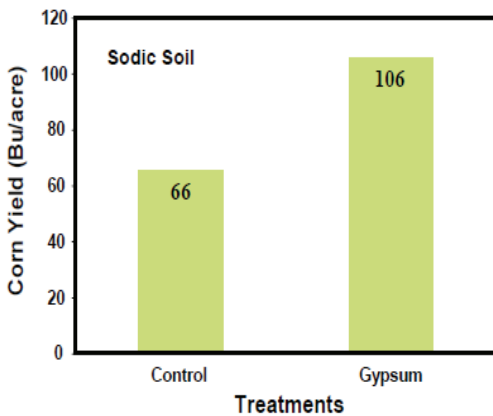
A Charah[®] Agricultural Product



Highly Soluble Form of Calcium



According to research conducted at the USDA's ARS National Soil Erosion Lab at Purdue University, gypsum counteracts the effect of aluminum toxicity in low pH soils, restricts phosphorous runoff, and boosts the uptake of iron by decreasing negative impacts of bicarbonates. Gypsum helps corn plants because it enables more oxygen to get to their roots by maintaining soil pore openings. It also enables the plant's roots to penetrate deeper into the soil.



(Fehrenbacher et al, *Illinois Res.*, Spring, 3-4, 1972)

Raise your Maize
with GypsuMax[®]

Figure 1*

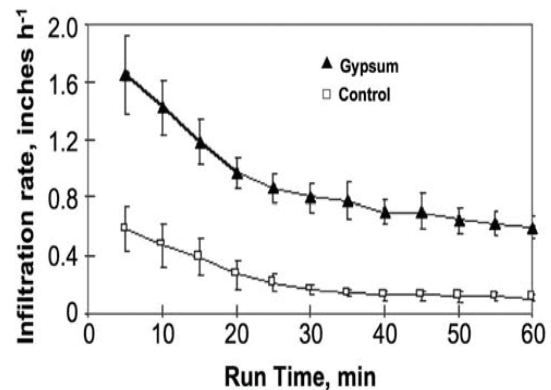


Figure 1-1* *Infiltration rate for a Blount soil with and without surface-applied gypsum. Gypsum can serve as a soil amendment to improve soil physical properties, water infiltration, and percolation. Illustration by Dr. Darrell Norton, USDA.*

*Source: Ohio State University Extension Bulletin 945



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Benefits of GypsuMax[®]

- Aids in disease prevention
- Increases crop yields
- Greater water solubility, allowing gypsum to be available to roots sooner than limestone
- Improves drainage through particle and clay flocculation
- Improves soil structure
- Decreases compaction through flocculation
- Reduces soil crusting and cracking
- Improves uniformity of plant growth
- Reclaims fields high in sodium and magnesium found in low quality soils and irrigation water
- Improves physical and chemical properties of soils
- Reduces erosion, loss of nutrients, and phosphorus concentrations
- Mitigates subsoil acidity and aluminum toxicity
- Enables better root penetration to plant nutrients such as nitrogen, sulfur, air, and water

Figure 1*



Figure 1* Application of synthetic gypsum increases water infiltration and percolation. Foreground shows section where the gypsum has been applied, and background shows the control section without gypsum. Norton and Rhoton, 2007.

TYPICAL ANALYSIS Calcium Sulfate Dihydrate (Dry Weight Basis)	
Calcium.....	21%
Sulfur	17%
pH.....	7-8
Particle Size.....	95% Passing #100
Bulk Density	~80 lbs/ft ³
CaSO ₄ -2H ₂ O Purity	>90%
Free Moisture.....	7-14%
Rate = 1000 lbs/Acre	

*Source: Ohio State University Extension Bulletin 945

For more information, visit GypsuMax.com or call us at 844-822-8385.
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