Enid, Oklahoma

Reduction of chloride levels in soybean and corn farmland

A farmer in Enid, OK had been experiencing reduced soybean and corn crop yields due to extreme salt buildup in the soil. High chlorides were a result of years of salt-based fertilizer use.

Basis of Treatment

Byo Soil 200 (SoilSaver AG) is a 100% natural patented, propriety humified soil extract which contains a pharmaceutical-grade humate molecule and nine essential soil microbes and essential enzymes. The product performance is accelerated with Byo-Gon biostimulant. The high cation exchange capacity of the humified soil extract molecules in Byo Soil 200 attaches the salt ions to the carbon chain through a chelation bonding process. The microbes and enzymes ensure the breakdown of the Na-Cl bond and catalyze the permanent, ionic bond to the organic molecule. Microbes and enzymes break portions of the organic chain with resulting ionic bonds becoming encapsulated within the organic structure. Byo-Gon biostimulant speeds up the rate and efficiency of the biological portion of the process. This product does NOT reposition salt, it eliminates it in a much quicker and more cost effective manner than other remediation options.

Treatment

Byo Soil 200 was applied to 1.5 acres of farmland at a rate of 2 gallons per acre in 60 gallons of water. The soil was sprayed and then saturated with approximately 75 gallons of water/acre. Pre and Post chloride levels were tested and are listed below:

SAMPLE	Chlorides Start	Chlorides Finish
Sample #1	582	46
Sample #2	586	40

As you can see from the above data, the chloride levels were reduced significantly after 60 days.