

**Powered by Acti-Cell Technology® (ACT)****SOIL-PLUS® Enhances Grain Production (South Texas)****ABSTRACT**

Jerry Setliff, a third-generation farmer, began seeking natural, organic ways to improve the fertility of his soil on nearly 6,000 acres of his family's farm located near Corpus Christy, Texas.

**BACKGROUND**

Dry land farming is common in the lower mid-western states and many farmers in the Corpus Christy, Texas area rely on consistent rain to irrigate their farms. As a result, yields tend to be lower than irrigated farms. During the rainy season, excessive rain results in an over-irrigated or water-logged condition in the soil and soil borne diseases are the usual result. One such common condition that plagues farmers is Texas root-rot. Under such conditions, anaerobic bacteria attack plant roots and these bacteria consume subsurface oxygen that is vital to maintaining soil fertility and nutrient release. Many farmers there have experienced reduced yields as a result.

**APPLICATION**

Setliff Farms began applying Biofeed [SOIL-PLUS®](#) at the rate of 1 gallon per acre in addition to their conventional liquid fertilizer program once per year in the late fall. SOIL-PLUS® is blended with the liquid fertilizers being applied, and this combination is injected into the soil to limit nitrogen loss due to volatilization.



[ACT®](#) is biologically generated using specific organic compounds which are transformed into unique, water-soluble amino acids, enzymes and other beneficial organic compounds through a proprietary process of biological transformation.

**RESULTS**

Setliff Farms has reduced its rate of nitrogen units per acre by 30% four years in a row and averages 26% increased yields compared to the previous four-year period. Further, these treated fields exhibit substantially less damage from Texas root-rot due to the higher levels of oxygen in the soil as well as improved drainage as a result of the prebiotic benefits of using SOIL-PLUS®. Since realizing its effectiveness and profitability, Setliff Farms has made it a regular part of their fertilizer program.