NUTRIENT STRESS RELIEF RESPONSE OF SILAGE CORN TO C.A.L.F.A.® AND CYTOPLEX® HMS® APPLIED THROUGH PIVOT IRRIGATION

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Field trials show that Cytoplex HMSR (zeatin glycosides plus bioactive metabolites) and/or C.A.L.F.A. (bioactive microbial metabolites) are an effective aid in overcoming nutrient stress and promoting increased yields in both dryland and irrigated cropping systems. Beneficial response has been observed under situations of water stress and alkali induced nutrient stress. Water use efficiency has been noted when either or both of the products are used in cultural practices. A study was initiated on silage corn under drip and pivot irrigation with a history of poor production due to nutrients bound by alkaline soil. Corn grown in this soil under pivot has historically had low yields. The 2004 to 2006 yields averaged 17 tons per acre. The Cytoplex HMS plus C.A.L.F.A. treated crop yield was 28 tons per acre. Nutrient deficiencies were less prominent due to better uptake of iron, zinc, manganese and phosphate. More efficient water utilization was noted, 1.88 acre feet versus 3.5 acre feet. Yield increased approximately 10 tons per acre.