Zinc Plus ON PECAN TREES

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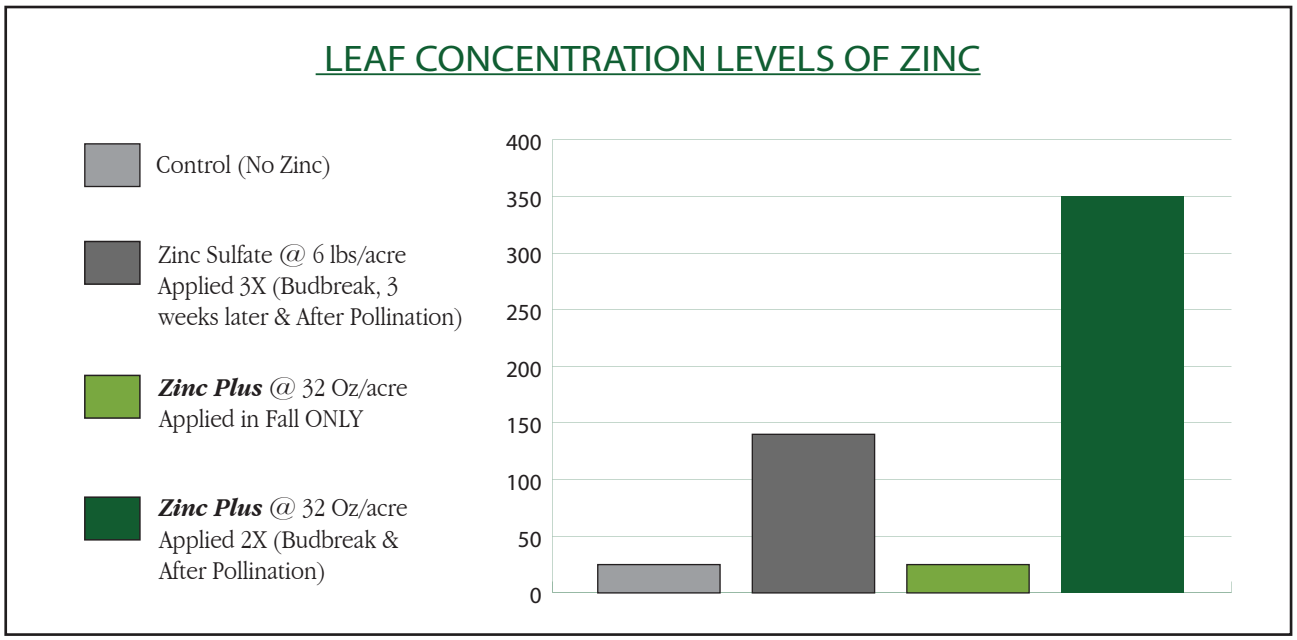

RESEARCH OBJECTIVE:

To compare the absorption rate of ***DeltAg Zinc Plus*** to the standard Zinc Sulfate spray on pecan trees. Leaf samples were collected to evaluate zinc concentration levels in the leaves.

RESEARCH METHODS:

Each treatment was replicated seven times with individual trees serving as a replicate. Leaf samples were collected one week following application, along with a July collection. Tree growth data was collected from each tree. The study was conducted on 6 year old Pawnee trees just starting production. Trees were fertilized with 100 lbs of nitrogen per acre yearly in late winter (February, early March).

RESULTS:

"The Spring applied ***DeltAg Zinc Plus*** **was 1,368% higher than the control & 148% higher than the Zinc Sulfate** application." "The two Spring applications of *DeltAg Zinc Plus* had greater absorption than the three Spring applications of Zinc Sulfate." "Data from this study indicates that the two applications of *DeltAg Zinc Plus* in the Spring were more than sufficient to achieve the recommended zinc concentration levels in the leaves. Therefore, a grower may be able to lower their input costs by applying the *DeltAg Zinc Plus* as compared to Zinc Sulfate."

"Future studies to examine the recommended application rates for pecans are recommended. At 32 ounces per acre the leaf concentration levels are higher than the recommended levels. Therefore, a lower application rate may be sufficient to maintain proper leaf concentration levels. Another study that would be beneficial is to determine if the ***DeltAg Zinc Plus*** is translocated within the leaves of the trees if applied in the Spring. Data has shown that the Zinc Sulfate is only used by the leaves that the product is sprayed on. This is why there is a current recommendation for multiple applications throughout the spring while the trees are actively growing. There is some indication that the ***DeltAg Zinc Plus*** product may be absorbed by the leaves better and may be translocated from older leaves to newer leaves. If this is the case, an early application of ***DeltAg Zinc Plus*** would greatly benefit growers by reducing number of zinc applications."

Dr. Charles Rohla, Ph.D

** All data shown are results complied for ***Zinc Plus*** research and are not guaranteed. Results may vary according to weather conditions.

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