



## STOLLER ENTERPRISES, INC.

*...World leader in crop nutrition...*

### WHY DO PLANTS STOP GROWING DURING DRY CONDITIONS?

We all know that plants stop growing during drought conditions.

Why?

Is there anything that we can do about this problem?

Plant growth stops at the growing tips (terminal growth) because cell division is limited.

Why?

Because the plant greatly reduces the production of auxins during dry weather (when moisture in the plant is limited).

Can we foliar apply auxins and have the plant continuing to grow?

Yes.

Foliar spray 4 oz. per acre of Stimulate. Spray on 10 day schedule until the drought breaks.

Is it possible for a plant to produce auxins during dry weather and the plant more rapidly consume them?

Yes.

Auxins are more rapidly consumed by the plant during dry conditions. This is due to the increased production of IAA oxidase.

Can we reduce the rate of IAA oxidase so plants will grow more normally during dry conditions?

Yes.

Foliar Spray, 1 quart of Nitrate Balancer per acre. Maintain sprays every 14 days until drought breaks.

Does the lack of Auxins in the roots stop root hair growth during drought conditions?

Yes.

The foliar application of Stimulate should help this problem also.