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June 3, 2002

TO: Stoller Consultants
FROM: J. H. Stoller
SUBJECT: Keeping the SAM Cycle in Balance

In order to control plant stress and achieve maximum cell membrane conditions, it is imperative that the SAM cycle be kept in balance. In doing so, the following must take place:

1. Maintain levels of ethylene at a steady production level.
2. Control the excessive amount of putrescine buildup in a plant tissue.

(Both of the above products can cause cell membrane damage if they are present in excessive amounts)

In order to accomplish the above, the plant must contain adequate amounts of calcium. Also, the plant must have adequate amounts of salicylic acid in order to continuously convert the putrescine to polyamines.

After numerous field experiences and observations of some research plots, following are my recommendations for the accomplishment of the above:

Foliar spray 1 pint per acre of each of the products contained in the HELP package. This is based upon broadcast application.

If the spray is row directed, so that only plants are covered, foliar spray ½ pint per acre.

THE ABOVE AMOUNT SHOULD BE SPRAYED AT 14 DAY INTERVALS....ON ALL CROPS.

If the economical situation does not support a 14 day interval spray application, my suggestion would be to concentrate the sales during periods when stress is going to be more evident.

JHS:kd