



# Propagation Guidelines

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High yield, top quality cuttings are the ultimate goal in vegetative propagation. Phyton-27® works on easy and tough to propagate species to increase cutting yield and quality by decreasing losses to stress and disease. Always consult the appropriate product label prior to use.

## *Stock Plants*

Phyton-27® cleans up your stock plants inside and out. Apply a few days before taking cuttings to allow systemic uptake. The bactericidal and fungicidal protection will be in place to protect the cuttings in the propagation house and the explants going in to tissue culture.

A California grower sprays Phyton-27® at the rate of 30 fl. oz. per 100 gallons water on jasmine stock plants which are difficult to propagate. This grower has increased the yield of cuttings by 20%, to almost no losses. The cuttings after treatment stay green and maintain their foliage.

A Utah grower uses Phyton-27® on poinsettia and chrysanthemum stock plants. They fog the poinsettia stock plants once a week see amazing results. No Erwinia and they don't treat the cuttings at all. One application on mum stock plants with a follow-up application on the cuttings keeps the black spot under control.

## *Cuttings*

Whether you take your own cuttings or have cuttings shipped in, a few days after transplant is the time to start a regular preventive spray program with Phyton-27®. A srench after transplant cleans the outside of the cutting and growing area immediately surrounding the cutting. Phyton-27® is gentle enough to use on microcuttings coming out of tissue culture.

A Florida grower dips foliage cuttings to increase yield. His trials confirm results from Costa Rican trials where dipping cuttings in Phyton-27® decreased losses from 25% without to 4%.

A Michigan grower has been spraying poinsettia cuttings for the past 4 seasons. Losses to Erwinia have been nearly eliminated.

A Wisconsin grower applies Phyton-27® preventively through a boom on poinsettia cuttings. Cutting losses have been cut to zero where before they were losing 3-5%.

A California grower tested Phyton-27® on field-selected heather cuttings rooted under mist. An application of 15 ounces per 100 gallons cut losses to 12% as compared to 100% loss on the untreated cuttings.

A California grower sprays Phyton-27® on baby tears cuttings at sticking and has increased yield by 70-80%. Occasionally needs to reapply after the plants are removed from the mist.

## *Bulbs and Divisions*

Perennial and bulb crop growers benefit from Phyton-27® applied as sprays on plant divisions and pre-plant bulb dips. Broad labeling for perennials and bulb crops is included on the 2000 label expansion for Phyton-27®.

A Texas grower reports a noticeable increase in yield when Phyton-27® is applied to daylily divisions.

A Wisconsin grower drastically reduced losses to Erwinia on calla lily, from 50% to 5% or less, by dipping the bulbs in Phyton-27® before planting. They had significant losses in the untreated calla lilies.

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