

Crop Production for Pecans

► ORCHARD ESTABLISHMENT PROGRAM

The goal of the PHC Pecan Maintenance Program is to reestablish the partnership of mycorrhizal fungi and beneficial bacteria with the roots of established Pecan trees. The PHC Pecan Maintenance Program, will focus on establishing an ectomycorrhizal biological ecosystem in order to:

- Create a more extensive and efficient mycorrhizal root system
- Optimize water and mineral nutrient absorption
- Reduce transplant losses
- Gradually enhance soil porosity for improved water movement, drainage and aeration
- Provide better survivability under stress, including drought.



SEEDING INOCULATION OF ROOTSTOCK

PHC® Ecto Spore Spray: An ectomycorrhizal fungal inoculant that is designed for use with spray equipment and is formulated for Pecans and all other ectomycorrhizal tree species. This sprayable inoculant combines spores of the ectomycorrhizal fungi *Pisolithus tinctorius* (Pt) and *Scleroderma citrinum* with beneficial soil bacteria, yucca plant extract and a microbial nutrient complex to promote the colonization of the rhizosphere with these beneficial microbes.

PHC Ecto Spore Spray Spore Kit Size	Maximum Number Container Seedlings*	Square Feet Bareroot Nursery Bed
SK10	600	200
SK100	6,000	2,000
SK500	30,000	10,000

*Based on a 4" x 4" cell size.

ORCHARD OUTPLANTING

PHC® Ecto Root Dip: PHC Ecto Root Dip is used as a preplant root dip to inoculate bareroot and containerized tree seedlings with ectomycorrhizal fungi prior to field planting. PHC Ecto Root Dip contains two superior species of ectomycorrhizal fungi that will colonize the roots of Pecans under a broad range of growing conditions. Spores in PHC Ecto Root Dip are mixed with a special hydrogel, extracts of natural yucca, seaweed, humic acids and beneficial rhizosphere bacteria.

PHC Ecto Root Dip Package Size	Water	Number of Trees Treated
3-oz.	1 Gallon	Treats up to 50
15-oz.	5 Gallons	Treats up to 250



"Nourishing the environment we live in"

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PHC® NATURAL

Crop Production for Pecans

► MAINTENANCE OF ESTABLISHED TREES

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PHC PECAN SPRAY PROGRAM

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PHC Ecto Spore Spray Spore Kit Size	Acres Treated Per Spore Kit
SK10	1
SK100	8
SK500	40

Yuccah®: An enhanced botanical wetting agent and soil penetrant that nourishes soil microbials and promotes uniform water movement through soil and soilless media mixes.

Yuccah Package Size	Rate	Acres Treated Per Gallon
2 x 2 1/2 Gal.	12-oz. per acre	11

How to Apply: Determine number of acres to be sprayed. Use a minimum of 25-30 gallons of spray solution per acre. Add to spray tank the recommended number of PHC Ecto Spore Spray kits and the recommended rate of Yuccah surfactant to match the number of acres to be sprayed as shown in the charts above. Apply the spray solution to the soil beneath the tree canopy. Follow with irrigation to rinse the product into the soil. Recommended rates are based on a broadcast treatment.

When to Apply: For best results, two applications of the PHC Pecan Spray Program are recommended during the first season (Spring and Fall preferred). During subsequent growing seasons, a single application of the PHC Pecan Spray Program is recommended to sustain the ectomycorrhizal ecosystem. Broadcast spray application should be made prior to scheduled irrigation.



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