Answers to the seven most asked questions about SUPERSORB®

When we introduced SUPERSORB® water absorbants a few years ago we were confident that they would be successful, but we had no idea that this practical and versatile water management tool would generate so much enthusiasm among landscape professionals.

We,ve compiled some of the most frequently asked questions and answers. If your questions aren't answered here, give us a call toll-free at the number below.

Q: What is SUPERSORB and what does it do?

SUPERSORB is a water absorbant. It consists of acrylic copolymer crystals which absorb water to increase the moisture holding capacity of soil. SUPERSORB crystals can absorb up to 200 times their weight in water and release nearly 100 percent of their reserves as the soil dries out or plants require it. SUPERSORB keeps on working for at least two years. It is non-toxic to plants, people and animals, and is eventually metabolized by soil microorganisms.

Q: What will SUPERSORB do for me in landscape installation and maintenance?

A: SUPERSORB C lets you and your customers extend the time between waterings. It helps trees, shrubs, bedding and container plants and ground covers survive moisture stress conditions. SUPERSORB F can be used as a rootdip for bareroot plants, added to hydroseeding mixtures or used to speed the establishment of sod. So SUPERSORB saves you time and water and gives you better plant establishment.

Q: What's the difference between SUPERSORB and other water absorbants on the market?

A: Aside from SUPERSORB's unique blue color, which is helpful when mixing it into the soil, you'll find that SUPERSORB's particle size is more uniform for more predictable performance. In addition, SUPERSORB is backed by AQUATROLS' customer service and 35 years of experience.

Q: Which particle size, Coarse or Fine should I use?

A: We recommend SUPERSORB C, Coarse Particle (1-2mm) for transplanting trees and shrubs, amending the soil in beds, containers and hanging baskets. SUPERSORB F, Fine Particle (<.5mm) is used for hydroseeding, installing sod, seeding and for root dipping bareroot stock.

Q: Will SUPERSORB waterlog the soil or take water away from plant roots?

A: No to both questions. SUPERSORB expands into discrete chunks; it doesn't form a soggy mass. As SUPERSORB expands and contracts it actually helps keep the soil or container mixes open and loose. Since water must be in a free state for SUPERSORB to absorb it, water clinging to soil particles or within plant root tissues cannot be absorbed by the crystals.

O: How much does SUPERSORB cost to use?

A: It costs about \$.50 to amend the backfill for a tree or shrub with a one foot in diameter rootball.

Q: Where can I buy SUPERSORB?

A: From the turf and hort supply distributors throughout
North America. If your distributor doesn't stock SUPERSORB,
accept no substitutes. Call us toll free and we'll give you
the name of the nearest SUPERSORB distributor.

Call us for further information, technical service or a free sample. 1-800-257-7797, in N.J. (609) 665-1130.

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The Water Management People

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JUNE 1990/LANDSCAPE MANAGEMENT 67

PROBLEM MANAGEMENT

by Balakrishna Rao, Ph.D.

'How do trees grow?'

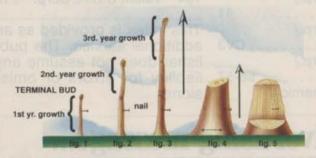
Problem: I have been employed in the parks department of the city of Galesburg, Illinois for about 12 years. I had never given much thought about the growth of trees until a new employee asked, 'How do trees grow?' One of the old-timers responded, 'From the top up,' and said that if you drove a nail into a young tree you would find it at the same elevation 50 years later.

I find that hard to believe. When I look at a tree that's 50 feet high and see a crotch that's 10 feet above the ground, I can't believe the tree was that tall when it was planted, or that all the previous features disappeared begins the crotich.

peared, leaving the crotch.

I know that a tree feeds down from the leaves and then again up from the roots. But does it grow up and out? (Illinois)

Solution: The "old timer" on staff proves that there's no teacher like experience. Trees do grow from the top up. This drawing and explanation should help you understand the situation.



Trees grow from the top up from the terminal bud (Fig. 1). These terminal buds are produced every year at the tip of the current year's growth. From this new terminal bud, new growth will be reproduced during the following growing season, usually in spring (Figs. 2-5). The stem will elongate for a period (depending on species and growth habit) and then stop growing and develop a new terminal bud for future growth.

The yearly growth and elongation and terminal bud setting process will continue as the trees grow from the top upward. Depending on growing conditions—such as soil, environment and fertilization—a given tree may produce different lengths of growth during different years. So stem (or trunk) elongation occurs each year as new growth occurs from the terminal bud. Pre-existing

stem tissue does not elongate.

Because of the tree's growth habit, if the nail was driven into the current season's growth before the yearly elongation process stops, the final elevation of the nail may be slightly higher than the original height. However, if the nail was introduced after the elongation process was stopped, it will stay at the same elevation thereafter.

You are also correct in saying that trees grow up and out. As far as upward growth, refer to the above

The outward growth takes place from a layer of tissue (cambium) located between the xylem and phloem. The cambium layer is responsible for secondary and outward growth. It produces xylem (sapwood) inward and phloem and bark tissue outward. So the outward growth we see on any tree is due to cambia' 494

activity. Every year this will produce growth layers, one outside the other, which are called "growth rings" without any elongation upward. Because of the outward growing habits of trees, a nail or any other foreign objects, such as wire or systemic injection tools left over, can be gradually enclosed inside by growth layers and the callosing process.

Treating snow mold

Problem: A number of our clients' lawns had snow mold disease problems in past years. What is the best way to manage this problem? (Pennsylvania)

Solution: Success in snow mold disease management depends on properly diagnosing the causal agents and following good management guidelines. Since we do not have a good broad-spectrum fungicide to manage all snow mold diseases, proper identification is very important.

Several different fungal agents can cause turf disease at low temperatures. Among these are pink snow mold (fusarium patch) caused by Fusarium nivale and gray snow mold caused by Typhula spp., which are the two most common and important snow mold diseases and

are active during the winter months.

Pink snow mold is characterized by reddishbrown spots with pinkish colored margins. Pinkish mycelial growth may be present at the border of patches in the early morning. Gray snow mold has gray to black mycelium with hardened yellowbrown fungal bodies (sclerotia) embedded in the leaf and crown of infected plants.

Often snow mold problems can be managed successfully by following good cultural practices. Avoid heavy fertilizing late in the fall that produces lush growth. Continue mowing until turfgrass growth stops, and manage whatever thatch problem may exist.

Since snow molds usually kill only the turfgrass leaves, rake and break up infected and matted leaves to encourage new tiller growth from the crown. This should be done before the grass greens up in the spring and prior to pre-emergence crabgrass her-

bicide application(s).

Lawns with a history of snow mold disease severity can be treated with fungicides. General fungicide recommendations include one application before the first snow cover, the second application during mid-winter and the third application after the snow melts in the spring. Among these three applications, the one that is made in the late fall, before the snow cover, is most beneficial and practical. Chemical treatments in the spring may not be very effective, since the damage has already been done.



Balakrishna Rao is Manager of Technical Resources for the Davey Tree Co., Kent, Ohio.

Questions should be mailed to Problem Management, Landscape Management, 7500 Old Oak Boulevard, Cleveland, OH 44130, Please allow 2-3 months for an answer to appear in the magazine.

194 06/03 10

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