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In addition, Daconil Weather Stik can be tank-mixed with a wide range of turf and ornamentals fungicides, so you can also count on it for broad-spectrum support of your systemics, as well as disease resistance management. Remember, there's never been a documented case of disease resistance to a Daconil brand fungicide in over 25 years.

And Daconil Weather Stik is more concentrated than prior formulations, so you'll have fewer jugs to get rid of, too. Which simply says from better protection to easier disposal, Daconil Weather Stik is the right flowable choice for you. ISK Biosciences Corporation, Turf & Specialty Products, 1523 Johnson Ferry Road, Suite 250, Marietta, GA 30062.

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Winterkill of Turfgrasses... (continued from page 12)

Before applying any type of protective layer or covering to a green or tee, it is important to make the appropriate applications of fungicides for snow mold control. The coverings, while protecting the turf, also create a microenvironment that is conducive to the development of the snow mold diseases.

Even adapted, acclimated turf can be killed by low temperatures, however, if the turf is extremely thatchy. The thatch does not retain heat as well as the more dense soil, and the effects of extreme cold on the turfgrass plant are not as well-buffered. Thatchy turf is also likely to become desiccated, thus subjecting the grass plants to two forms of potential winter injury.

Frequent and/or heavy traffic on frozen turf can also cause injury or death. This is a type of low temperature injury because the traffic causes ice crystals, that have formed inside the dormant plant to puncture cells and destroy tissue. This is similar to the damage that occurs following traffic on actively-growing, frosted turf in the fall or late spring.

Finally, a winter-related problem that few superintendents seem to be aware of is that of the winter mites. I believe that much of what is attributed to "winterkill" or winter desiccation is actually caused by the activities of these small mites. The mites feed heavily on turf during the late winter and spring, causing the turf to become bleached and desiccated, generally resulting in death. It is not surprising that mite injury is mistaken for winter desiccation. They are most active on south or west-facing slopes, along the south or west-facing sides of buildings or walls,

and around the bases (especially the south side) of evergreen trees (especially spruces). Their populations skyrocket on drought-stressed area. They can be found on any species of turf, and are most easily seen feeding on the tips of grass leaves late in the afternoon on sunny days. Irrigation seems to reduce mite populations significantly; variable levels of control are seen with Diazinon (not on the course!) and Dursban, Talstar 10W, a miticide that is quite effective against these critters, has a 24c registration in Colorado that allows use on turfgrass. Apply 2 to 4 tablespoons per 1000 square feet in 1 gallon of water, and do not irrigate in. This is highly toxic to fish and use near water is prohibited. ■

Credit: Rocky Mountain Reporter-Vol.26, No.11

Fireside Chat with Bruce Williams (continued from page 7)

of its affiliates. Future programs Bruce discussed that the GCSAA will offer its members are very promising indeed, from an on-line continuing education program to be unveiled at the 1997 Conference and Show in Las Vegas to computer terminals for each chapter for communication uplink between chapters and the GCSAA. The success of these progressive programs relies heavily on chapter affiliation, and thus on member involvement.

Discussing these and other issues with Bruce Williams leaves us with several lasting impressions, the most apparent being that our Association—the GCSAA—is poised to continue its growth and pro-active nature, and that it could not be in better hands than those of our own Bruce Williams. ■

Urbanization Affects Tree Longevity (continued from page 8)

more. Use of smaller or slower-growing varieties, and exceptional attention such as careful watering, fertilization, pruning, etc., may prolong the usefulness of trees beyond what might be expected. Inevitably, these trees will take increasing amounts of attention and eventually will require replacing.

Even though the lives of trees planted in adverse situations will be shortened, this in no way means that such trees should not be planted. Such trees fill a vital need, softening the harsh urban environment, providing shade or screening, or just providing something attractive to look at.

When trees are used in such a manner, it is important that everyone involved recognizes that these are temporary plants and will need to be replaced periodically. If the condition in which the trees are being used is understood in advance, and if replacements are anticipated and budgeted, there will be far less trauma when the plants begin to outlive their usefulness and replacement becomes necessary. ■

**James A. Fizzell is a consulting horticulturist and President of James A. Fizzell and Associates, Ltd., Park Ridge, IL.*



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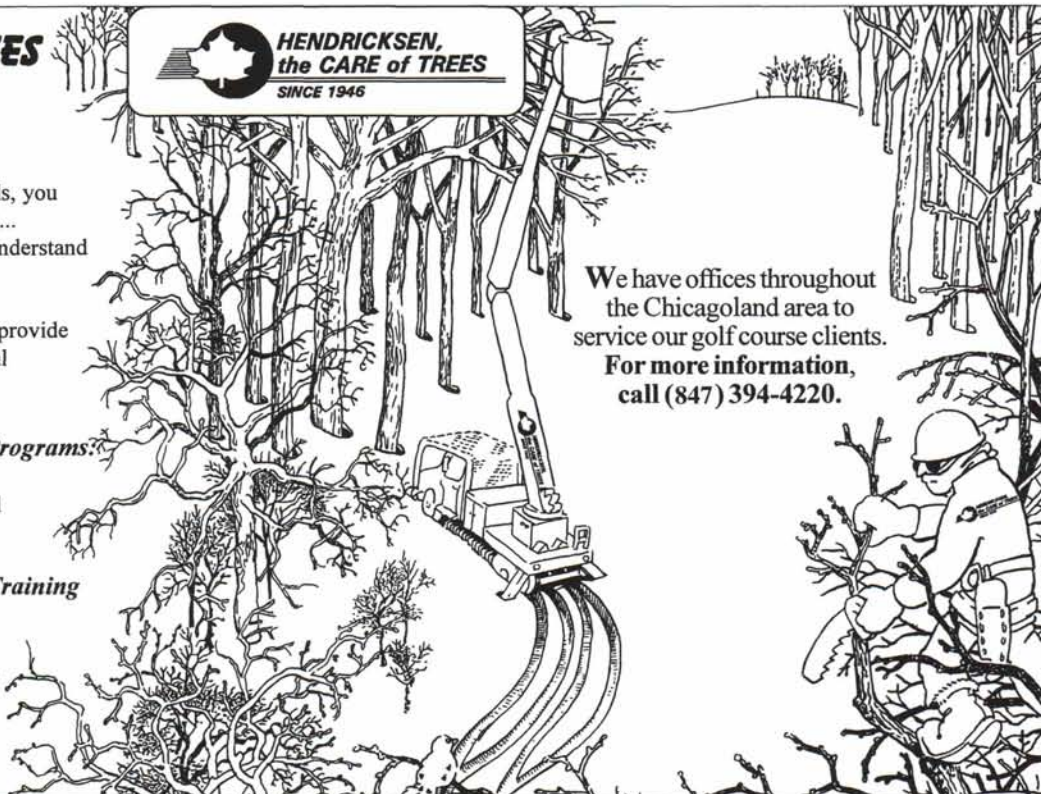
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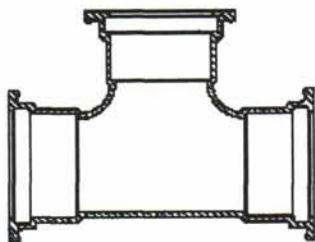
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A Summer to Remember
(continued from page 18)

sign of prolonged stress to the turf grass, I will raise the height of cut of all grass that is mowed short, such as greens, tees, and fairways. Secondly, if high soil temperatures have caused very shallow rooting of the turf grass, then it is time to begin spoon feeding the turf. A little bit of fertilizer applied more often to the plant in the upper root zone, where it is available, makes sense. Reducing mowing frequency and avoiding mowing the clean-up lap on stressed greens helps to reduce damage on the edges of greens.

Also, monitor turf closely and do not over water, especially if the air temperature and the humidity is high. Syringing turf to cool it down on hot days can be effective as long as the leaves do not stay wet for a long period of time. Lastly, start a good preventative spray program and apply at

the higher labeled rates. Reduce spray intervals, if necessary.

Why did some courses come through the summer better than others? After talking to many superintendents about their courses, I will attempt to make some conclusions. Courses with the least amount of *Poa Annua* and newer varieties of bent grasses seemed to fair much better. Drainage was another big factor. Poorly drained and low-lying wet areas seemed to have more damage. Air circulation was another big factor. Tight old courses with mature trees did not fair as well as the newer, more wide-open courses where the wind can help dry the grass leaves. Southern exposures that were at right angles to the sun during the hottest part of the day seemed more prone to damage. Turf favored with northern exposures had less stress because they had cooler soil temperatures. One thing we have to

remember is that in this part of the country, we are trying to grow cool season grasses. It was almost impossible at times this summer when the temperatures, for a long period of time, were more favorable for growing warm season grasses.


One positive side effect of a stressful summer like we just experienced is that it points out some weaknesses, whether it be in our management practices, golf course employees, sprinkling system, or mowing techniques. Also, we must take a look at the reliability of some of the products that we have used this past year. This is a good time to analyze our operation and prepare for another summer like we just had, even though it is only suppose to happen every 100 years. ■



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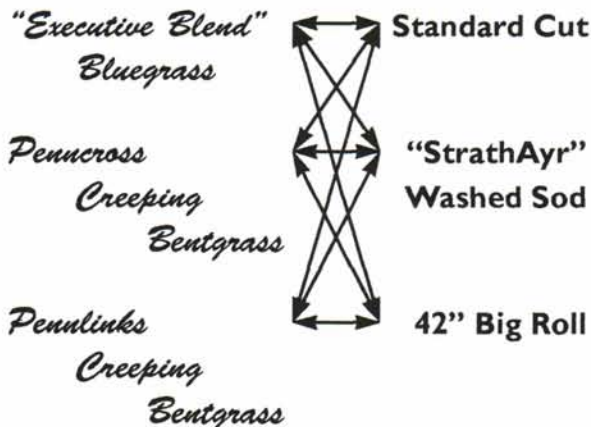
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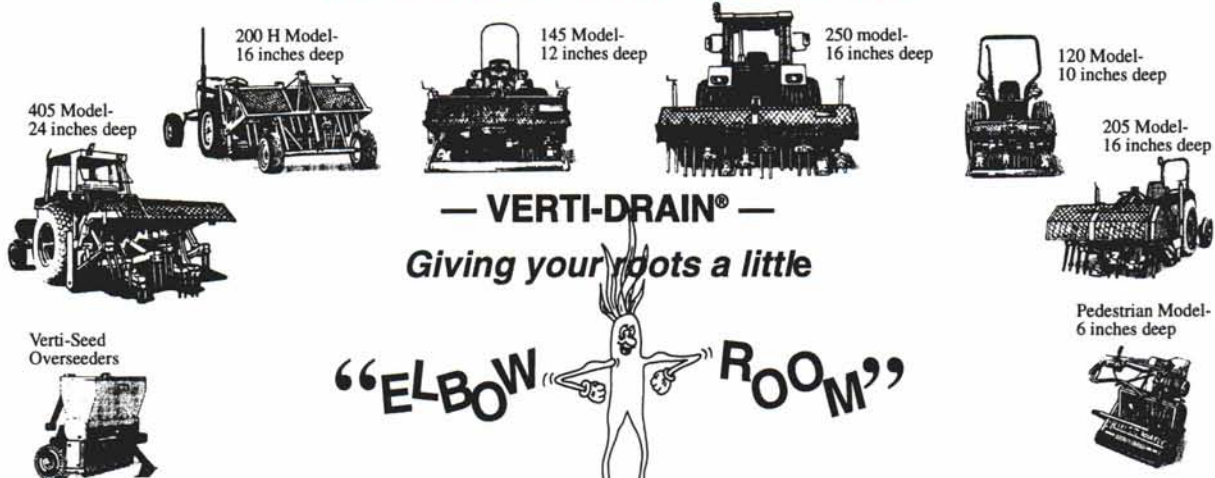
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