Take-Away™

Take out unsightly grassy weeds with LESCO Take-Away™ Postemergence Herbicide!

Selective, Systemic
Control of Grassy Weeds
in Ornamental Beds

Selective
LESCO Take-Away controls over 30 problem annual and perennial grassy weeds. It is labeled for over-the-top application on over 300 species of ornamental plants — that's three times as many ornamentals as competitive products!

Systemic
Take-Away moves quickly from treated foliage to all growing points and destroys the entire grassy weed plant—shoots, roots, rhizomes and stolons. Take-Away is rainfast one hour after application.

Fast Acting
Growth of treated grass virtually ceases within 48 hours after application. Grass will show symptoms of loss of vigor, yellowing or reddening. Death of grass usually occurs within 1-3 weeks, depending on species and environmental conditions.

Take-Away

To Order, contact your LESCO sales representative or call (800)321-5325.

ESTABLISHED 1962
20005 Lake Road
Rocky River, Ohio 44116
Fertilizers, Seed, Control Products, Equipment, Parts

©1991 LESCO, Inc.
Take out unsightly grassy weeds with LESCO Take-Away™ Postemergence Herbicide!

Selective
LESCO Take-Away controls over 30 problem annual and perennial grassy weeds. It is labeled for over-the-top application on over 300 species of ornamental plants — that's three times as many ornamentals as competitive products!

Systemic
Take-Away moves quickly from treated foliage to all growing points and destroys the entire grassy weed plant — shoots, roots, rhizomes and stolons. Take-Away is rainfast one hour after application.

Fast Acting
Growth of treated grass virtually ceases within 48 hours after application. Grass will show symptoms of loss of vigor, yellowing or reddening. Death of grass usually occurs within 1-3 weeks, depending on species and environmental conditions.

To Order, contact your LESCO sales representative or call (800)321-5325.

ESTABLISHED 1962
20005 Lake Road
Rocky River, Ohio 44116
Fertilizers, Seed, Control Products, Equipment, Parts
Take away the competition!

Give ornamentals a fighting chance! Grasses compete with ornamentals for moisture, light and nutrients and can also harbor insects and disease-causing organisms. Take-Away removes this threat without injuring desirable plants. Take-Away controls over 30 annual and perennial grassy weeds including tough-to-control perennial grasses like bermudagrass, torpedograss, quackgrass, johnsongrass, kikuyagrass, guineagrass.

Cut costs!

Take-Away reduces the need for expensive handweeding. It requires only an over-the-top spray application for quick results. Apply LESCO Take-Away to actively growing grasses before they reach the maximum size and before tillering and/or seedhead formation. Always use a wetting agent like LESCO Spreader Sticker for better adhesion and improved performance. Rainfall or irrigation occurring one hour or more after application will not affect performance. Refer to label for specific application rate information. Always read and follow label directions when applying any chemical product.
The Original
Clear Liquid Fertilizer Company
For Your Turf Featuring...

- Flow-sensitive Injection Systems
- Total Concept Service... Delivery, Field Service, and Custom Blend Programs
- New “Micro Green” micro nutrient product line
- Enviro-Safe Containment Systems (state approved)

Pompano
1-800-432-2249
305-971-0022

Ft. Myers
Call Today!
813-332-5565

Pike Creek
Turf Farms, Inc.
Route 2, Box 376-A • Adel, Georgia 31620
1-800-232-7453

Producers of Quality Sod and Sprigs
Row Planting

- Tifway - 419
- Meyer Zoysia
- Tifdwarf
- Tifway II
- Tifgreen - 328
- Centipede
Let's face it, in this business it pays to be backed by an industry leader. Because when your pump system goes on line, so does your reputation. And Flowtronex can help you keep both your golf course and your reputation intact with our incredibly reliable, power-saving pump station.

And how do we do all this? With an engineering breakthrough called Smoothflow™. Developed in 1986 by our team of engineers, Smoothflow is a sophisticated computer software program that automatically monitors and controls our pump station. Which means you no longer have a need for a pressure control valve. And because of this precise control, our Flowtronex variable speed pump stations (VSPS™) have made pressure spikes and pump-related line breaks nearly extinct on our more than 200 golf course installations.

Smoothflow software also helps budgets by slashing energy use 15 to 50% when compared to conventional pump stations using control valves. This is one of the many reasons our VSPS is the industry's most popular. In fact, superintendents have bought twice as many variable speed systems from us as all our competitors combined.

So if you're in the market for a reliable, power-saving pump station, call Flowtronex International. We've got quite a track record for standing behind our customers. And their bottom lines.

For more information, call 1-800-537-8778 or 903-595-4785. Or write Flowtronex International, P.O. Box 7095, Tyler, Texas 75711.
NEWS ROUNDUP  MORE PARTICIPATION FROM USGA .......................... 10
The USGA has chipped in $4.1 million more for turfgrass research for projects through 1997. The award will fund projects to be selected in plant improvement and resource management.

COVER STORY  FINE OLD CLUB GETTING MODERN ............................... 16
Lake Region Yacht and Country Club in Winter Haven, established in 1924, was located where country clubs were meant to be, away from the city. After a two-phase redesign in the 80s, it’s now getting computerized water control.

FGCSA SPOTLIGHT  TWO KINDS OF PROFESSIONAL ............................... 24
Adam Yurigan was a former professional golfer who played and won several open tournaments in 30s. Later as a club pro, he doubled as the golf course superintendent and became an expert nurturer and healer of turfgrass.

ENVIRONMENT  A PERMANENT WILDLIFE PRESERVE ............................. 28
Several golf courses near Vero Beach have been developed to double as preserves where endangered plants and animals can survive and thrive.

TECH REPORT  SPEED ISN’T THE ONLY MEASURE ................................ 35
Green speed is important, but there are other qualities that make a good putting surface. Here are some management tips for evaluating and improving your own course.

GREEN PAGES  IS EPA GIVING RIGHTS BACK TO STATES? ...................... 43
Is it good news or bad when an EPA report says that states have the primary responsibility for protecting groundwater from pesticide contamination?

AFTERWORDS  EFFLUENT FOR THE AFFLUENT ................................. 44
Just because it sounds like a good idea doesn’t mean that sewage effluent is economical or advantageous for your turfgrass. Tom Benefield, CGCS, has some insights on this important concept every superintendent should consider.

GREEN SIDE UP  I HEAR THE TRAIN A-COMING ................................. 48
If you want to know which end is up in the future of golf course management, read Editor Joel Jackson’s parable about everyman in the turf management business.
We understand the importance of a good mix.

That's why it's important that you get to know Atlantic FEC. Because we provide a variety of specialty mixes and related products specifically formulated for the South Florida turfgrass industry.

Each turfgrass mix is delivered by Spyder equipped trucks in water-resistant paper or plastic bags. Bulk material is available in either normal size Killebrews or "small door" (24") Killebrews to accommodate your turf spreader. Drop trailers, sulfur coated potash, and new Micro Prill Greenskote, a quality putting green blend, also available.

Call us toll free at 1-800-432-3413 or visit us at 18375 S.W. 260th Street in Homestead to find out how you can benefit from quality mix from the Atlantic FEC turfgrass professionals.

Atlantic FEC
Better Mixes Since 1923.
We Supply It, So You Can Work It...

FOR PRODUCT KNOWLEDGE, THESE EXPERTS SERVICE YOUR AREA.

David Miller ....................... Central Florida
Jim Sartain ....................... West Coast
Bob Schroeter ..................... North Florida
David Cheesman ................... S.E. Florida
Shawn Zakany ..................... S.E. Florida
Jim Wells ......................... Central Florida
Tracie Rodwell ................... S.W. Florida
David Barnes ..................... Central Florida
Mike Ayer ......................... West Coast
Marty Griffin ..................... S.E. Florida
Mike Miles ....................... West Coast

QUALITY PRODUCTS FOR YOUR GOLF COURSE, ITS MAINTENANCE AND APPEARANCE.

FERTILIZERS AND SOIL AMENDMENTS
- Lykes Agri Sales
- Ringer Turf Products
- Liquid Ag Systems Inc.
- Dakota Reed-Sedge Peat

CHEMICALS
- Helena Chemical Co./Ag Resources

SEED
- Pickseed West Inc./Ag Resources

EQUIPMENT
- Club Car Carryall
- Daihatsu Hijet
- Florida Sprayers Inc.
- Crosley Trailers
- Easy Picker Driving Range Vehicles
- Douglas Rollers
- RedMax Reciprocators
- Rainjet Fountains
- Windfoil Sprayers

ACCESSORIES
- Cylex Granite Signs
- Southern Screen and Embroidery Flags
- Standard Golf Co.
- Lewisline American Eagle
- Par Aide Products
- FlexStake
- Motorola Radius Radios
- DNA Sun Helmets
- Hammers Recycled Plastics
- Fox Valley Marking Paints
- Lundrain Drainage Material
- Spyker Spreaders
- Master of the Links Wood Products
- Hole-in-White (Cup Brightener)
- Clover Lapping Compound

2582 OLD COMBEE ROAD
LAKELAND, FLORIDA 33805
1-800-330-8874 • (813) 665-5800 • FAX 667-0888

Golf Ventures
a complete line of golf course products
Thanking you for your cooperation, service and time over the past year

As I write my last President’s Message, I would like to reflect back to my first one and the three goals — association growth, research, and pesticide awareness.

During my term as president, we have increased our membership from 685 to 747. We also added a new chapter, Seven Rivers, which brings us to a total of 11. I would like to thank Eddie Snipes, Membership Chairman, and all who helped in this association growth.

Our research green, now dedicated to Otto Schmeisser, has two USGA projects under way as well as fertilizer trials which will give us beneficial information. Thanks to Kevin Downing, the committee, Marcus Prevatte, and all members who made this research green a reality.

During this year we have seen the start of the Florida Golf Council. Already they are lobbying for us against the proposed water-use tax. Fellow superintendents, I cannot stress enough how important this Council can be for all in the golf industry and I urge you to support the Florida Golf Council. Hopefully, Tim Hiers will have the time and energy to stay on this Council.

If this has been a successful year, it is because of the cooperation I received from the membership who put in the extra time to make it one.

Thank you.

Ray Hansen
FGCSA President
DESIGNED FOR OVERSEEDING WINTER GREENS
TRANSITION MADE EASY

We've taken Cypress® Poa trivialis, the darkest commercially available Poa trivialis and blended it with Creeping Bentgrass and Streaker Redtop Bentgrass to create the finest winter overseeding blend... Cypress Greens®

Each variety in Cypress Greens® has been chosen to take advantage of their enhanced genetic characteristics and a natural growth cycle that compliments the dormancy period of your Bermudagrass greens. Cypress Greens® Overseeding Blend will provide the smoothest fall and spring transition you have ever experienced.

- Cypress® Poa trivialis establishes fast and can be cut close immediately. As your Bermudagrass goes dormant, Celpril coated Cypress® will provide a dark green turf with no interruption in play. You won't have to raise mowing heights or stop play to let the grass become established.

- Cypress® Poa trivialis performs well before the Bentgrass becomes fully established in mid winter...to provide the smoothest putting surface available.

- As the weather turns hot in the spring Cypress Greens® Overseeding Blend will die out naturally as your Bermudagrass begins to grow. Cypress Greens® will not choke out your Bermudagrass in the spring as some heat tolerant perennial ryegrasses do.

In addition to dark green color and fine texture, all varieties in Cypress Greens® Overseeding Blend are cold and shade tolerant and perform well on damp soils. Each variety will prosper with close mowing.

This winter, overseed your Bermudagrass with Cypress Greens® and keep your greens in prime uninterrupted playing condition all season long...Your golfers won't notice the transition.

COMPONENTS IN CYPRESS GREENS

Poa trivialis
Cypress® or Sabre ................. 50-70% *

Creeping Bentgrass
Seaside, Penneagle
Pennlinks, Penncross ............. 10-25% *

Streaker Redtop Bentgrass ........ 10-25% *

* Formulation varies according to preference. Celpril Coated for fast establishment.

SEEDING RATES
of cool-season turf grasses overseeded on Bermudagrass greens

<table>
<thead>
<tr>
<th>Variety</th>
<th>Seeds/lb</th>
<th>1000 sq.ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cypress® Poa trivialis</td>
<td>2 million</td>
<td>10</td>
</tr>
<tr>
<td>Cypress Greens® Overseeding Blend</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>Ryegrass Blend</td>
<td>265,000</td>
<td>30</td>
</tr>
<tr>
<td>Streaker Redtop Bentgrass</td>
<td>4.8 million</td>
<td>5</td>
</tr>
<tr>
<td>Creeping Bentgrass</td>
<td>6 million</td>
<td>5</td>
</tr>
</tbody>
</table>

A PRODUCT OF

TURF MERCHANTS

33390 Tangent Loop • Tangent, OR 97389 • (503) 926-8649
Fax: 503-926-4435 • Outside Oregon: 800-421-1735
USGA commits another $4.1 million for 4-year turf research program

The USGA has extended the turfgrass research program begun in 1982 with a $4.1 million appropriation for projects to be conducted through 1997.

The money will fund research projects, still to be selected, in plant improvement and resource management. The former includes turfgrass breeding and biotechnology; the latter includes cultural practices, biotechnology and pest management.

A request for pre-proposals will be sent to university researchers next month and final decisions on projects to be funded will be made by the Turfgrass Research Committee in March.

In the final round of awards for the previous USGA program, University of Florida researchers at the Fort Lauderdale Research and Education Center received funding for two projects at the FGCSA's Otto Schmeisser Memorial Research Green on the FLREC campus.

Pathologist Monica Elliott is looking for a “good twin” to the evil fungus Gaeumannomyces graminis that causes bermudagrass decline.

“The idea is to introduce an organism with all the same characteristics as the pathogenic strain except pathogenicity (the ability to cause disease) and let it colonize the roots and protect the roots from pathogenic strains,” she writes. “It's something like 'king of the root' or 'possession is nine-tenths of the law' or 'I got here first!'”

Dr. John Cisar is only a few months away from beginning actual tests of pesticides on the USGA green.

Both researchers said the USGA announcement was “important news,” and both expect to submit pre-proposals to continue and expand their current projects as well as undertake new ones.

“It is very important for the USGA to be a leader,” says Cisar. “Most of the research money we get is from private sources.”

Determining suitable levels of salinity in recycled water would be particularly appropriate for the golf industry, Cisar said, and it’s a project that interests him.

“Bermudagrass decline, and the related patch diseases up North, are root rot diseases that are extremely difficult to control,” says Elliott. “Even now, chemicals alone do not do the job. It will truly require a combination of cultural, chemical and biological control practices.”

Both researchers, professors at the Fort Lauderdale REC, said that state budget cuts have seriously hampered their work.

“They’re talking about turning off my lights,” Cisar said.

“We need funds to buy the basics like petri plates, media and chemicals,” said Elliott.

Among the objectives of the USGA’s original 10-year research program was the significant reduction of water use and maintenance costs by breeding new grasses and developing improved cultural maintenance practices.

Two improved turfgrass varieties, NuMex Sahara bermudagrass and NE 84-609 buffalograss are now available for use on golf courses and other turf areas as a result of USGA funding. Much of the background work has been accomplished with the breeding programs sponsored by the USGA and the organization expects more varieties to be released this decade.

During the next five-year phase of the program, emphasis will be placed on developing grasses and cultural maintenance practices that conserve natural resources. New grasses will be sought that require less water, pesticides and fertilizer, and that exhibit other desirable characteristics, including:

- ability to survive temperature extremes
- tolerance of non-potable water