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CHEMICAL LOG

White Grubs: Know The Enemy

When it comes to white grubs, to know them is to dread them. However, knowing the damage they cause and how to identify specific species and their life cycles, turf managers can control this pest.

"White grub" is a generic term referring to the larval stage of several beetle species. The most familiar turf pest species of beetles in the Northeastern United States include the Japanese beetle, Asiatic Garden beetle, Oriental beetle, European Chafer and the Northern Masked Chafer. In the Midwest and South, major pests include May and June beetles and the Southern Masked Chafer.

Damage

In general, most grubs of turf-inhabiting beetle species are similar in appearance except for size differences. Grubs are often white/cream-colored with a brown head capsule. They have three pairs of legs and are usually curled into a "C" shape.

White grubs feed on turfgrass roots and kill grass plants by severing their root systems from foliar plant parts. In fact, extensive grub damage to turfgrass often results in very large areas of grass that can be rolled back, as if it were freshly cut sod or carpeting, due to severing of roots. Damage often appears as patches of large, localized areas of yellow/brown grass as result of desiccation and eventual plant death.

Diagnosis and Identification

Identification of white grub species that are causing damage can be made by observing diagnostic structures on the larvae. Sampling for and obtaining larvae involves removing a patch of turf and probing underlying soil and

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thatch. Grub species are identified by using a 10X hand lens to observe the pattern of spines at the tip of the larval abdomen.

Life Cycle/Control

For most of the species mentioned above, except for May and June beetles, the complete life cycle takes one year. May and June beetles have a three-year life cycle.

Insecticides are most effective if applied with the time of occurrence of the most vulnerable stages of insect pests.

In the three-year life cycle of May and June beetles, larvae are the most vulnerable stage. They can be controlled with an insecticide applied during fall of the first year when small, young larvae are feeding on roots close to the soil surface.

Control is also possible during the second year from June to September. However, efficacy may not be as good during the first year due to the larger grubs present during the second year. Control during the third year is not normally needed since there is little larval feeding upon grass roots during the spring.

Those interested in controlling white grubs are highly advised to consult the extension service at state universities for up-to-date information regarding local pest biologies and time of occurrence of vulnerable life stages.

Insecticides in combination with sound turfgrass agronomic practices are currently the most effective method of white grub management. Timing insecticide applications with the occurrences of young larvae in the one inch of soil maximizes effectiveness and can reduce costly treatment. Irrigation or precipitation before and after insecticide application also can significantly improve control.

A number of insecticides are currently labeled for control of white grubs. These include bendiocarb (Turcam), carbaryl (Sevin), chlorpyrifos (Dursban), diazinon, ethoprop (Mocap), fonofos (Crusade), isazofos (Triumph), isofenphos (Oftanol) and trichlorfon (Dylox, Proxol).

Be sure to read and follow label directions. Several of these products have restrictions limiting where they may be applied or may require application by certified applicators. □

Technical credit: DowElanco.

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March, 1993 23

Diamond Prepping— A Daily Approach

By Mike Trigg



Begin diamond preparation by raking back the infield mix into all holes and low spots, such as in areas around home plate. Photos courtesy Mike Trigg/Waukegan Park District.



Bleachers, dugouts and other surrounding areas should be cleaned and inspected daily.

At many park districts, summer baseball and softball leagues are major recreation programs. The same holds true here at the Waukegan Park District, Waukegan, IL, where we prepare 18 to 25 skinned and grass infields for daily use from mid-May through August.

We have found winter preparation and seasonal staff training are important to the daily preparation of high-quality playing fields. During the winter months, we inspect and repair equipment and vehicles necessary for a summer season of ball diamond prepping. Chalkers are serviced to ensure that they are functioning properly. Hand tools used for prepping, such as shovels, rakes, watering hoses, tamper and batter's box frames, are cleaned and readied.

Another key winter project is to evaluate ball diamond prep materials, such as chalk and calcined clay. We determine

SCHOOLS	TYPE: SOFTBALL (S) BASEBALL (B)	PREPPED (YES/NO)	INSPECTED/FILLED HOLES	HOME PLATE AREA	INSPECTED/FILLED HOLES AT BASES	DRAGGED SKIN AREA	CHALKED SKIN AREA BOXES	CHALKED BATTERS	RAKED FOUL LINES	WATERED AREAS	SKINNED	PREPPED PITCHERS MOUND	PREPPED BULLPEN/ BATTING CAGES	CLEANED DUGOUTS/ PLAYED BENCHES	RAKED SCREENINGS	EXPOSED HOLLYWOODS/PEGS	CLEANED PRESSBOXES/ SURROUNDING AREA	EMPTIED TRASHCANS	VISUALLY INSPECTED FENCING	VISUALLY INSPECTED BLEACHERS	VISUALLY INSPECTED PLAYER BENCHES	VISUALLY INSPECTED THREE AREAS	DESCRIBE GENERAL CONDITIONS & COMMENTS
Benny SE																							
Benny SW																							
Benny NE																							
Benny NW																							
Glen Flora S																							
Glenwood E																							
Glenwood W																							
Jefferson NW																							
Jefferson SW																							
Lyon																							
McAree SW																							
McAree NE																							
McCall NE																							
McCall NW																							
Webster NE																							
Webster SE																							
Webster SW																							
Weiss																							
Waukegan East																							
Waukegan West																							

CREW LEADER: _____ EMPLOYEE: _____
SIGNATURE: _____ SIGNATURE: _____ SUPERVISOR: _____

Ball diamond preparation and safety checklists serve as guides for daily infield preps.

quantities needed for the upcoming season and order for spring delivery. Having equipment and products available for use will enable efficient use of staff during the hectic daily diamond prepping.

As seasonal help is hired, proper training is required so the employee understands what is expected to prep the ball diamond. This is best achieved by hands-on demonstrations. The techniques of specific details for daily ball diamond prepping include:

- Filling holes at bases and home plate.
- Properly dragging skinned areas.
- Raking of grass edges.
- Chalk lining.
- Cleaning dugouts and/or player benches.
- Inspecting site amenities.

Begin your field prep by raking back the infield mix into all holes and low areas, such as the home plate and base areas. It is important to make sure the infield mix is moist. This will allow you to tamp and compact the area for a firm, level surface. For pitcher's mounds, place damp infield mix or blue clay in the area in front of the pitcher's rubber and the area where the pitcher lands following a pitch. Pack the material to ensure a firm, smooth pitcher's mound.

Begin dragging to level the infield area. Drag away from the edges; don't pull the

infield mix into the grass area. Stay at least eight to 12 inches away from the arc edge when dragging, and don't drag over home plates or pitcher's rubbers. Also, don't stop dragging in the same place everyday.

After dragging the diamond, rake the grass arc edge and the edges of a grass infield. These areas of an infield, where the skinned or infield mix meets the grass, are called the "lips." This transition should be flat. The infield mix has a tendency to accumulate in the grass along the lips, and can be removed with daily raking, or by using a stream of high-pressure water from a hose.

Correctly line batter's boxes and foul lines with a two-inch chalk line. Batter's boxes should be chalked squarely, connecting all corners. Then use a hand rake to eliminate any footprints. When chalking foul ball lines, first measure and run a starting line for accuracy and straightness. Finally, home plate, the pitching rubber and bases should be cleaned off daily.

Clean out dugouts and/or player benches and empty trash barrels. This is an important maintenance step that is very visible and often overlooked. Inspect your site amenities for possible safety hazards. Crews should report

any such hazards to their supervisors immediately. Keep the spectator bleacher areas clean. Also, keep backstops and fence lines clean and weed free.

To reinforce the importance of these activities, develop and use checklists for your athletic field maintenance. Both ball diamond prepping and safety checklists serve as guides for daily infield preps. List specific prep techniques across the top of the checklist as reminders for the prep crew. Allow space to date each checklist and to check off the tasks as completed for each of the fields the crew will be working. Leave room for additional comments on the general condition of each field. Have crew leaders, crew members and supervisors sign each checklist.

Creating a ballfield with perfect playing conditions may be time-consuming, with many tasks involved. However, once completed, a well-prepared field is a pleasure for the players, as well as the spectators. □

Editor's Note: Mike Trigg is parks supervisor for the Waukegan Park District, Waukegan, IL. He is a member of the national Sports Turf Managers Association and the current president of the midwest chapter.

MICHIGAN FOUNDATION PRESENTS AWARDS

The Michigan Turfgrass Foundation presented its annual student awards at the Michigan Turfgrass Conference in Lansing, MI.

The MTF winners are: Norman Kramer Award (The Outstanding Scholar)—Karen S. O'Dell; Robert Hancock Award (four-year turfgrass management program)—Robert A. Traver; Kenyon T. Payne Award (two-year golf program)—Michael P. Powers; and Lawn Care Manager Award (two-year lawn care program)—Gerald P. Lavender.

The MTF sponsors a total of four awards. A student from each of the three turfgrass programs offered at Michigan State University (four-year turfgrass management, two-year golf and two-year lawn care) is named as the outstanding student of that program. One student from the overall program is named the overall outstanding student. The Norm Kramer Award goes to the student with the highest grade point average while showing leadership characteristics and potential for future development.

COOPERTOOLS SIGNS AS WORLD CUP SUPPLIER

CooperTools, a worldwide manufacturer of hand tools and chains headquartered in Raleigh, NC, has signed an agreement with World Cup '94 Marketing to serve as an equipment supplier for the 1994 FIFA World Cup.

CooperTools will serve as the exclusive hand tool supplier to World Cup USA 1994 in exchange for worldwide marketing rights including use of the World Cup USA 1994 logo, product exclusivity and ticket privileges.

SEED RESEARCH PAYS ROYALTIES

Seed Research of Oregon, Inc. will pay royalty fees totaling \$14,000 for the sales of SR 1020 creeping bentgrass to the University of Arizona and \$12,500 for the sales of Providence (SR 1019) to the University of Rhode Island.

SR 1020 was developed using germ plasm collected and screened by Dr. Robert Kneebone at the University of Arizona, where it was distinguished by heat and drought tolerance.

Providence was developed in cooperation with Dr. Richard Skogley, professor emeritus of the University of Rhode Island and is distinguished by its uniform color, fine texture and upright growth habits.

STIMMEL WINS BEST SAND SCHOLARSHIP

Jeffrey Alan Stimmel, a turfgrass management student at Ohio State University, Columbus, OH, has won the third annual Best Sand Corporation turfgrass management scholarship. The scholarship covers the cost of tuition and books for one school year.

Stimmel, a graduate of Logan High School, Logan, OH, plans to become a golf course superintendent when he graduates. He is currently employed as a member of the golf course maintenance crew at Scioto Country Club near the Ohio State campus.

The scholarship is awarded each year to a turfgrass management student from either Ohio State, the Agricultural Technical Institute (ATI) in Wooster or Clark State Community College in Springfield. To qualify, applicants must be second-year students at ATI or Clark State or in their second, third or fourth year at Ohio State.

WADSWORTH WINS ROSS AWARD

Brent Wadsworth, who has built more than 350 golf courses throughout the United States during the past 35 years as the head of Wadsworth Construction, has been named the 1993 winner of the American Society of Golf Course Architects Donald Ross Award.

He will receive the award at the annual Donald Ross Award Dinner, April 26, at the Philadelphia Cricket Club, Philadelphia, PA, during the ASGCA annual meeting.

Some of the courses he has built or remodeled include The Fortress, Frankenmuth, MI; Augusta National, Augusta, GA; Castle Pines, Castle Rock, CO; Eagle Trace, Coral Springs, FL; and Shadow Creek, Las Vegas, NV.

In addition to building courses, he helped build and served as chairman of a major resort company that provided golf facilities to the travel industry. He also serves on several golf-related advisory boards.

SANDOZ AND SCOTTS SIGN FUNGICIDE AGREEMENT

Sandoz Agro, Inc. and the O.M. Scott & Sons Company signed a limited time, exclusive agreement for Rizolex (tolclofos-methyl) fungicide. As a stand-alone product or in combination as a fungicide premix, it will utilize a new chemistry developed by Sandoz Agro. It provides brown patch and snow mold control for cool- and warm-season turf applications.

Sandoz expects Rizolex to be registered as early as 1994, with the market launch of Scotts' products formulated with Rizolex possible in 1995. Scotts estimates that the company will utilize Rizolex in up to six products within the company's current and future fungicide line.

MONSANTO TO PURCHASE ORTHO'S DIVISION

Monsanto Company has signed a letter of intent with Chevron Chemical Company to purchase the assets of that firm's Ortho Consumer Products Division.

Monsanto said the purchase price for the business will be approximately \$400 million, including working capital employed in the business.

The company said they hope to conclude the transaction during the first quarter of 1993.

LOFTS EXPANDS SERVICE AND SUPPORT DIVISION

Lofts' Golf Course Service and Support Division is expanding. The division began five years ago to help golf course developers, architects and superintendents to tap into the company's expertise in golf course agronomics.

It will continue to be directed by Richard Hurley, Lofts' director of research, with John DeMatteo, turfgrass agronomist, assisting. Kevin Driscoll and John Farrell, both serving in sales capacities, will join the division to offer expanded services to the market. They will continue to service their sales territories, but will cover the golf course construction market.

ROOKIES

PRODUCT UPDATE

HAND PUMP

An upgraded version of the high-capacity, non-clogging Diamond Pump pumps water directly from dirt infields, sand traps and irrigation breaks. It is made of ABS plastic and has a PVC handle and piston rod.

A flexible piston cup and butterfly intake valve keeps the pump from clogging in the muddiest conditions, but still pumping 18 to 20 gallons per minute. A six-inch aluminum disc prevents mud from being drawn directly into the unit.

KURANDA USA

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DRAINAGE MATTING

Enkaturf Drain, a landscape drainage system is designed to eliminate standing water from areas such as sports fields and golf courses.

The product is a three-dimensional nylon matting wrapped in a porous filter fabric that forms a high-capacity drainage duct. The filter fabric keeps soil particles out of the drainage medium. After passing through the fabric, water flows within the open core of nylon matting.

AKZO INDUSTRIAL SYSTEMS COMPANY

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SOFTWARE

ET Calc is a software program for calculating accurate water budgets for planting, irrigation and landscape management. Considering soil texture, species water ratings, microclimatic conditions and density of the landscape, operators can evaluate water use for compliance to stricter water laws.

Evapotranspiration, a measurement of water used by plants through transpiration and evaporation, is one of the product's calculations. It also generates irrigation schedules for various irrigation systems, including drip and bubbler applications.

IRRIGATION MANAGEMENT GROUP

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SPRAY TIP



The TeeJet "Drift Guard" flat spray tip reduces drift at standard pressures of 30 to 60 psi while maintaining nozzle pattern uniformity.

The tip increases droplet size, producing an average size 30 to 50 percent larger, eliminating small, drift-prone droplets at recommended pressures. The tip is available in 80- and 110-degree spray angles and sizes from 0.13 gallons per minute to 0.49 gallons per minute.

SPRAYING SYSTEMS CO.

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TOPDRESSING AND WARNING TRACK

Beam Clay Red Brick Dust, Red Lava Dust and Red Warning Track are specifically made for baseball diamonds. The deep red porous materials help prevent compaction and improve top cushion for more consistent, easily maintained top playing surfaces.

These products can condition a regulation field by spreading eight tons of Red Brick Dust or six tons of Red Lava Dust, tooth dragging into the top one inch, then moistening, rolling and dragging the surface. For warning tracks, a one-inch cover of Red Lava Track over a 15-x-690-foot outfield track takes only 22 tons.

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Primo turfgrass growth management tool can be used on highly maintained commercial and residential turf. It slows turf growth as needed, and it breaks down to carbon dioxide and water.

The product can be used on all major warm- and cool-season turf species, including bahiagrass, common and hybrid bermudagrass, centipedegrass, St. Augustinegrass, zoysiagrass, bentgrass, Kentucky bluegrass, red and tall fescue and annual and perennial ryegrass.

Primo temporarily inhibits turf plants' production of gibberellic acid, which determines cell elongation and internode length. At standard rates, it reduces turf growth by half for four weeks. It also reduces the amount of clippings.

CIBA-GEIGY

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TOPDRESSER

Millcreek's fifth-wheel hitch model topdresser comes standard with an engine and electric brakes. The spread width can be adjusted in minutes without tools from three to 10 feet wide. Capacity is 40.4 cubic feet.

MILLCREEK MANUFACTURING CO.

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MOWER

The Groundsmaster 223-D trim mower provides efficient transfer of engine power available by incorporating a mechanical four-wheel drive system, resulting in more horsepower from the engine available for driving the unit.

Users have a choice of 52-, 62- and 72-inch floating cutting units. The Guardian 62 Recycler Deck can be retrofitted to the mower. It restricts hazardous discharge while eliminating the burden and expense of collecting clippings.

ROPS with a seat belt is standard on the unit.

THE TORO COMPANY

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PRESIDENT'S MESSAGE



By Gil Landry

Any professional would have to be proud of the achievement of George Toma and his crew at San Francisco's Candlestick Park for the NFL championship game between the Dallas Cowboys and the San Francisco 49ers on January 17. Such national exposure is invaluable to our industry, giving us a more professional image.



Webster's Dictionary defines the word *professional* as "of, engaged in, or worthy of the high standards of, a profession." And *profession* is defined as "a vocation or occupation requiring advanced education and training, and involving intellectual skills, as medicine, engineering, teaching, law, etc." In San Francisco, Toma and his crew defined professionalism for the sports turf industry. They engineered an extensive surgical procedure on that field and certainly added tremendous insight into our profession.

TOMA NAMED TO ALL-MADDEN TEAM

The Sports Turf Managers Association's (STMA) Groundskeeper of the Year, George Toma, was named to CBS sports commentator John Madden's "All-Madden Team" January 24.

The "All-Madden Team" consists of players and personnel who personify Madden's football philosophy of hard work and a "what it takes attitude." Madden cited Toma's heroic work in preparing the football field at Candlestick Park for the NFC Championship Game January 17. Toma is the first groundskeeper to be named in the nine-year history of the program.

In San Francisco, Toma and his crew defined professionalism for the sports turf industry.

Developing A Professional Edge

It is up to each of us to build on professional accomplishments; to recognize national fields with state-of-the-art equipment, along with local success stories where well-trained crews supported by adequate budgets produce safe, high-quality fields. Developing professionalism is one of our biggest challenges and toughest obstacles.

If you want to be considered a professional, you have to act, dress, and speak accordingly. Professionals may not always have all the answers, so they rely on other professionals such as colleagues, suppliers, consultants, reference books or associations for assistance.

Improving Our Image

The visibility our sports facilities receive offers our industry the opportunity to enhance its image. We need to be prepared, to handle the expect-

tations that comes with better staff and more dollars.

There is no reason the sports turf industry can't have an association such as the golf course industry has. The Golf Course Superintendents Association of America's (GCSAA) 64th Annual Conference and Trade Show drew more than 16,000 industry professionals and 600 manufacturers and distributors exhibiting more than 175,000 square feet.

In less than half that time—30 years—the STMA will be hosting an event of similar size, importance and value. Like Toma and his crew at Candlestick Park, the GCSAA is the model for success, a professional association fostering professionalism in industry and membership. Like the GCSAA, STMA must walk before it can run. Just watch, or better yet, join the team. After all, half the fun is getting there. □

A co-founder of STMA, Toma has spent more than 40 years working in the sports turf industry. He has dazzled prominent figures with his baseball, football and soccer expertise. Toma has worked every Super Bowl since the first game at the Los Angeles Coliseum in 1967, and in 1972 he became the NFL's playing field consultant.

STMA Chapter News

The New England Chapter: STMA—Future plans of the New England Chapter STMA include an all-day meeting to be during August in the

mid-New England area. Further details will be announced soon.

For information on the meeting or other chapter activities, contact Mary Owen, University of Massachusetts Cooperative Extension System at (508) 831-1225.

Midwest Chapter: STMA—The Chapter, in cooperation with Wheaton College, is sponsoring the National Midwest Regional Sports Turf Institute, which will be June 30. The Institute offers the opportunity to take part in education sessions, gain up-to-date information from suppliers at the trade show and share ideas with other sports turf professionals.

New for 1993 will be the Infield Rodeo, a two-person team competition on infield dragging and line-marking to determine who's the best in the midwest.

Further details on the Institute will be announced soon.

For information on the chapter, these meetings or other chapter activities, call the chapter hotline (708) 439-4727, or Mike Trigg, Waukegan Park District (708) 360-4750.

STMA Florida Chapter #1—April 1, a field day will be held at the Institute of Food and Agriculture, 3205 College Avenue, Fort Lauderdale, FL. This will be a full-day program presented in conjunction with the University of Florida. Activities will include a tour of research plots and a review of research reports.

On May 18, a meeting and tour will be at the Palm Beach Polo Grounds from 9 a.m. to 2 p.m. Further details on this meeting will be announced shortly.

For information on the South Florida Chapter, or for details on these meetings or other chapter activities, contact John Mascaro (305) 938-7477 or Ed Birch (305) 938-0217.

Iowa Sports Turf Managers Association—ISTMA is developing the program for a June Sports Turf Workshop in the Eastern Iowa area. An August 4 workshop will take place in Des Moines, IA, at Sec Taylor Stadium, home of the Chicago Cubs AAA affiliate. This workshop will "cover the field" on baseball field maintenance. Further details on these workshops will be announced soon.

For information on these workshops, or other Iowa Chapter activities, contact Gary Peterson (515) 791-0765.

Colorado Chapter: STMA—The Colorado Chapter is in the planning stages for a late spring workshop on topdressing, a summer institute on care of soccer fields and a fall workshop on football field maintenance. For additional information on these meetings, contact Mark Leasure at (719) 597-1449.

For information on the Colorado Chapter and upcoming activities, contact Ron Marten, Falcon Colorado School District 49 (719) 495-3601.


Chesapeake Chapter: STMA—For information on the chapter and its activities, contact the chapter hotline (301) 865-0667.

Carolina Chapter: STMA—For information on the Carolina Chapter and its activities, contact Marc Farha, facilities manager for the Charlotte Knights (704) 332-3746.

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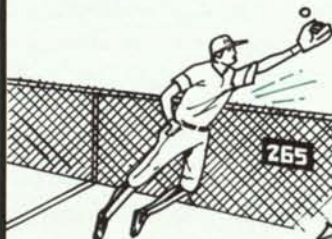
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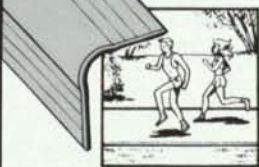
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ROOKIES

PRODUCT UPDATE

TRIMMER



The 125LD trimmer has a one-button injection starting system. No choking or half-throttle is necessary and the blade never rotates during starting. It has detachable shafts that can be separated into two sections for transporting and storing, or for switching cutting attachments.

The unit has a muffler molded of an aluminum alloy instead of stamped steel, lowering the noise level. It also has a 35-degree angle between the driving shaft and trimmer head. This enables the operator to more effectively trim without strenuous working positions.

HUSQVARNA FOREST & GARDEN CO.

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BALL PICKER ENCLOSURE

The ball picker enclosure from Columbia ParCar is made of expanded steel with a high-carbon tubular steel frame. The cage has easy-to-remove doors, which allow high visibility.

The unit has a light-colored top with UV stabilizer for sunlight deflection. The enclosures are designed for easy installation on gasoline and electric models.

COLUMBIA PARCAR CORP.

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WETTING AGENTS

Par Ex Wetting Agents are available in liquid, for irrigation systems and sprayer applications, pellets, for hand and syringe watering, and granules, for areas where irrigation is a problem.

The wetting agents reduce the surface tension of water molecules, enabling uniform water penetration and drainage, and achieving a uniform soil moisture profile for healthy turf and plant growth. It can be used on any turf or ornamental any time of the year.

The product can reduce overall watering requirements by as much as 30 percent. It can also reduce problem watering areas such as newly-sodded turf, quick-drying mounds and highly compacted soils.

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SWISS FIRM

SEEKS U.S. DISTRIBUTORS/DEALERS

The Swiss firm, **RAINTEC AG**, is looking for American partners to market their **low pressure automatic irrigator** called the **RAINTEC UNO**. This irrigation unit has a double speed regulating device for the recoiling of the hose that will automatically shut off when irrigation is completed as well as offering a patented hydraulic movement without water discharge. It is ideally suited for the irrigation of small agricultural fields, sporting fields, golf courses, parks, gardens or greenhouses.

RAINTEC AG would like to market this line in the United States through an established American firm. Inquiries are invited from dealers and distribution organizations as well as manufacturers of complementary products. Interested parties should contact:

Kimberly Roth Corradi, Swiss Government Trade Office 1275 Peachtree St. N.E., Suite 425, Atlanta, GA 30309-3533 Tel: (404) 872-7874 Fax: (404) 874-6655