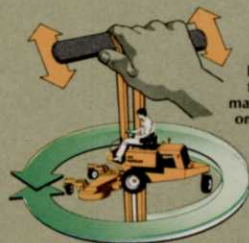


# Difficulty Finding The Right Mower For Your Needs?



Every HUSTLER features infinite maneuverability & one-hand control for maximum operating efficiency!

The smartest, most efficient equipment investment you can make is to purchase the right-sized machine for your job requirements. Anything more or less is a compromise solution and a waste of budget dollars.

EXCEL meets any need with six HUSTLER models ... 261, 275, 275 LPG, 295, 305 D and the 602 D.

All HUSTLER models feature our dual hydrostatic drive system and twin-lever drive wheel steering. One hand totally controls forward, reverse, turning, braking and ground speed, giving the operator the total control and infinite maneuverability that actually cuts mowing time like no other out-front rotary!

Excel delivers 6 HUSTLER tractor models from 18 to 32 hp— the longest, most efficient lineup in the industry.



And you can choose attachments to meet year-round needs ... from edgers to snow removal attachments. The results ... total operating efficiency and production.

**The 18 hp HUSTLER 261.** All the operating benefits of larger models in a compact design and a low price. Mows where no other 60 in. mower can mow.

**The HUSTLER 275.** The "no-frills" HUSTLER is a steady performer with its reliable 23 hp air-cooled Kohler engine.

**The HUSTLER 275 LPG.** Its 21.5 hp air-cooled

propane engine burns clean, low-cost LPG fuel.

**The HUSTLER 295.** 25 hp water-cooled engine provides performance for heavy-duty jobs.

**The HUSTLER 305 D.** 32 hp performance plus diesel engine economy.

**HUSTLER 602 D.** The self-leveling "hill handler" with the 32 hp diesel engine and 6-wheel drive traction.

Call Toll Free 1-800-835-3260 or write for FREE literature. EXCEL INDUSTRIES, INC., Box 7000, Hesston, KS 67062

EXI-7-183



The choice of the Pros.



Call Toll Free 1-800-835-3260



zation. He assumed his duties Dec. 1.

Moore began his extension career in Washington County and later served as Colorado County agent for a number of years. He served shortly as district director for the South Central Texas region, then headquartered at Gonzales, and for the past 11 years has been district director for the Southwest Texas region, headquartered at Uvalde.

"Mr. Moore has had a distinguished career in the Extension Service, is well-known over much of Texas, and has been an effective educator and administrator," said Dr. Zerle L. Carpenter, director of the Extension Service.

The Extension is a statewide educational agency which conducts programs in agriculture home economics, community development and 4-H and youth work to help people solve common problems in those areas.

A native of Stephenville, TX, Moore holds B.S. and M.Ed. degrees from Texas A & M University.

#### LANDSCAPING

### **Mattingly acquires equity in Classic**

Jack Mattingly, President of Jack Mattingly Associates, Inc., has acquired an equity interest in Classic Landscapes, Ltd. Mattingly has been elected president and general manager of the company.

Classic Landscapes, Ltd., with offices in Raleigh and Greensboro, NC, has been operating since 1976. Classic provides landscape management services to commercial and industrial clients in the Central Piedmont and Eastern portion of the state. The affiliation of Classic Landscapes, Ltd., and Jack Mattingly Associates, Inc., represents the largest landscape management service in North Carolina.

#### EQUIPMENT

### **Hudson offers sprayer promotion this month**

H.D. Hudson Manufacturing Company will have a special sales promotion on Trombone and Suburban sprayers during January.

The promotion is designed for extra-profit, early spring selling, and includes special pricing on orders received during January for Hudson Trombone and Suburban power sprayers. The offer also includes prepaid freight on an order of four Suburban sprayers or a standard pack of

Trombone sprayers.

The Hudson slide-type Trombone sprayer sprays a 30-foot stream and has an adjustable nozzle. The Hudson Suburban power sprayer has a tank capacity of 12 gallons and is available with stainless steel or galvanized tank and a variety of sprayer accessories. It is powered by either a gas engine or electric motor.

For more information, contact the H.D. Hudson Manufacturing Company, 500 North Michigan Ave., Chicago, IL 60611.

#### CHEMICALS

### **Burns joins Mobay's Specialty Group**

Mobay Chemical Company has named Richard Burns-its new sales representative for the upper midwest territory in its Specialty Product Group.

Burns will cover Minnesota, Wisconsin, Iowa, Illinois, Indiana, North and South Dakota, Nebraska, northern Michigan and eastern Missouri representing the Group's expanding line of pesticides to the professional turf, landscaping, commercial lawn care and pest control industries. Burns was a former research technician with the University of Illinois.

#### LANDSCAPE

### **New Buyer's Guide in ALCA 'Who's Who'**

The Associated Landscape Contractors of America will introduce a "Buyer's Guide" in the 1983 "Who's Who in Landscape Contracting." The directory will be available April 1 and will feature an alphabetical listing of landscape materials and services offered by ALCA's Associate Members. It will be made available to over 4000 interior and exterior contractors and to architects and designers nationwide. ALCA hopes the Buyer's Guide will improve member/vendor contacts and strengthen inter-industry communications.

"Who's Who in Landscape Contracting" is the most widely used listing of landscape contractors in the United States. The companies listed perform all phases of landscaping services ranging from interior and exterior contracting, design, build, land reclamation and maintenance.

Listing in the Buyer's Guide will be limited to ALCA's Associate Members only. For more information call ALCA, (703) 821-8611 or write 1750 Old Meadow Rd., McLean, VA 22102.

# **ARM YOURSELF FOR THE BUSY MONTHS AHEAD**

*... with vital marketing data gathered by our experts in these proven research techniques:*

- WATS Telephone
- Focus Groups
- Direct Mail
- Personal Interviews

We provide top quality in-house printing, mailing, tabulating, data processing, and analytical systems.

**Count on us for your special research needs.**

**Free cost estimates.**

**Infometrics**  
**National Research Center**  
A SERVICE OF HARCOURT BRACE  
JOVANOVICH PUBLICATIONS

131 West First Street  
Duluth, Minnesota 55802  
Ph: (218) 727-8511

# WHAT'S BETTER THAN SPEED READING?

## SPEED LEARNING

(SPEED PLUS COMPREHENSION)

**Speed Learning is replacing speed reading. It's easy to learn...lasts a lifetime...applies to everything you read...and is the only accredited course with the option of college or continuing education credits.**

Do you have too much to read and too little time to read it? Do you mentally pronounce each word as you read? Do you frequently have to go back and re-read words or whole paragraphs you just finished reading? Do you have trouble concentrating? Do you quickly forget most of what you read?

If you answer "yes" to any of these questions — then here at last is the practical help you've been waiting for. Whether you read for business or pleasure, school or college, you will build exceptional skills from this major breakthrough in effective reading, created by Dr. Russell Stauffer at the University of Delaware.

### Not just "speed reading" — but speed reading-thinking-understanding-remembering-and-learning

The new *Speed Learning Program* shows you step-by-proven-step how to increase your reading skill and speed, so you understand more, remember more and use more of everything you read. The typical remark made by the 75,000 slow readers who completed the *Speed Learning Program* was: "Why didn't someone teach me this a long time ago?" They were no longer held back by the lack of skills and poor reading habits. They could read almost as fast as they could think.

### What makes Speed Learning so successful?

The new *Speed Learning Program* does not offer you a rehash of the usual eye-exercises, timing devices, costly gadgets you've probably heard about in connection with speed reading courses or even tried and found ineffective.

In just a few spare minutes a day of easy reading and exciting listening, you discover an entirely new way to read and think — a radical departure from any-

thing you have ever seen or heard about. Research shows that reading is 95% *thinking* and only 5% eye movement. Yet most of today's speed reading programs spend their time teaching you rapid eye movement (5% of the problem) and ignore the most important part (95%) *thinking*. In brief, *Speed Learning* gives you what speed reading *can't*.

Imagine the new freedom you'll have when you learn how to dash through all types of reading material *at least* twice as fast as you do now, and with greater comprehension. Think of being able to get on top of the avalanche of newspapers, magazines and correspondence you have to read . . . finishing a stimulating book and retaining facts and details more clearly and with greater accuracy than ever before.

### Listen-and-learn at your own pace

This is a practical, easy-to-learn program that will work for you — no matter how slow a reader you think you are now. The *Speed Learning Program* is scientifically planned to get you started quickly . . . to help you in spare minutes a day. It brings you a "teacher-on-cassettes" who guides you, instructs, encourages you, explaining material as you

read. Interesting items taken from *Time Magazine*, *Business Week*, *Wall Street Journal*, *Family Circle*, *N.Y. Times* and many others, make the program stimulating, easy and fun . . . and so much more effective.

Executives, students, professional people, men and women in all walks of life from 15 to 70 have benefited from this program. *Speed Learning* is a fully accredited course . . . costing only 1/5 the price of less effective speed reading classroom courses. Now you can examine the same, easy, practical and proven methods at home . . . in spare time . . . without risking a penny.

### Examine Speed Learning FREE for 15 days

You will be thrilled at how quickly this program will begin to develop new thinking and reading skills. After listening to just one cassette and reading the preface you will quickly see how you can achieve increases in both the speed at which you read and in the amount you understand and remember.

You must be delighted with what you see or you pay nothing. Examine this remarkable program for 15 days. If, at the end of that time you are not convinced that you would like to master *Speed Learning*, simply return the program and owe nothing. See the coupon for low price and convenient credit terms.

**Note: Many companies and government agencies have tuition assistance plans for employees providing full or partial payment for college credit programs.**

**In most cases, the entire cost of your Speed Learning Program is Tax Deductible.**



#### COLLEGE CREDITS



You may obtain 2 full semester hour credits for course completion, wherever you reside. Credits offered through Whittier College (California). Details included in your program.

#### CONTINUING EDUCATION UNITS



National Management Association, the world's largest association of professional managers, awards 3.0 CEU's for course completion. CEU's can be applied toward the certificate in Management Studies.

#### PROFESSIONAL SOCIETIES

*Speed Learning* is offered internationally to members of professional associations such as: American Chemical Society, Foundation for Accounting Education, Institute of Electrical and Electronics Engineers and dozens more. Consult your Education Director for information.

#### BUSINESS, INDUSTRY, GOVERNMENT

Many companies and government agencies offer *Speed Learning* as a wholly-paid or tuition reimbursement program. Consult your Training or Personnel Director for details.

**learn**  
INCORPORATED

113 Gaither Drive, Mt. Laurel, NJ 08054

HBJ1-WTT-1/83

**YES! Please rush me the materials checked below:**

- Please send the *Speed Learning* program @ \$99.95 plus \$4 postage and handling.
- Please send the *Speed Learning Medical Edition* @ \$109.95 plus \$4 postage and handling.
- Please send the *Junior Speed Learning* program (ages 11 to 16) @ \$89.95 plus \$4 postage and handling.

**Check method of payment below:**

- Check or money order enclosed (payable to learn incorporated)
  - Charge my credit card under the regular payment terms
    - Visa  Master Card  Interbank No. \_\_\_\_\_  American Express
- Card No. \_\_\_\_\_ Exp. Date \_\_\_\_\_

NJ residents add 5% sales tax.

**I understand that if after 15 days I am not delighted in every way, that I may return the materials in their original condition for a full refund. No questions asked.**

Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Signature \_\_\_\_\_

**If you don't already own a cassette player, you may order this Deluxe Cassette Recorder for only \$49.95. (Includes handling and delivery.)**

Check here to order



— Outside USA add \$10 per item—Airmail extra —

ing the chemicals and equipment that is being used.

Mulkern is a strong proponent of informal pruning and instructs his crew on cleaning out deadwood and making neat cuts close to the trunk so the tree will heal over. "My attitude is 'you have a tree, you plant it as a tree, let it grow into a tree—not a ball,'" said Mulkern.

With the rapid growth rate of plants in Hawaii, weed control is a constant problem. Nutgrass is one of the most persistent offenders. Besides having a nut on top, there is a nut at the root which makes chemical control difficult. "The quickest way to burn-out an employee is have him pick nutgrass all day," said Mulkern. "Our spray program is designed so we spray once then encourage the weeds to sprout, then spray them two or three more times."

Mulkern prefers to pinpoint weeds with a backpack spot sprayer. As the weeds die the lawn often has yellow spots but he explains to the client that following fertiliza-

tion the whole lawn will green-up uniformly. "Most of the times it is wasteful to spray the entire lawn so we spot spray," he said. Spurge and Asiatic pennywort are some of the other problem weeds Mulkern encounters.

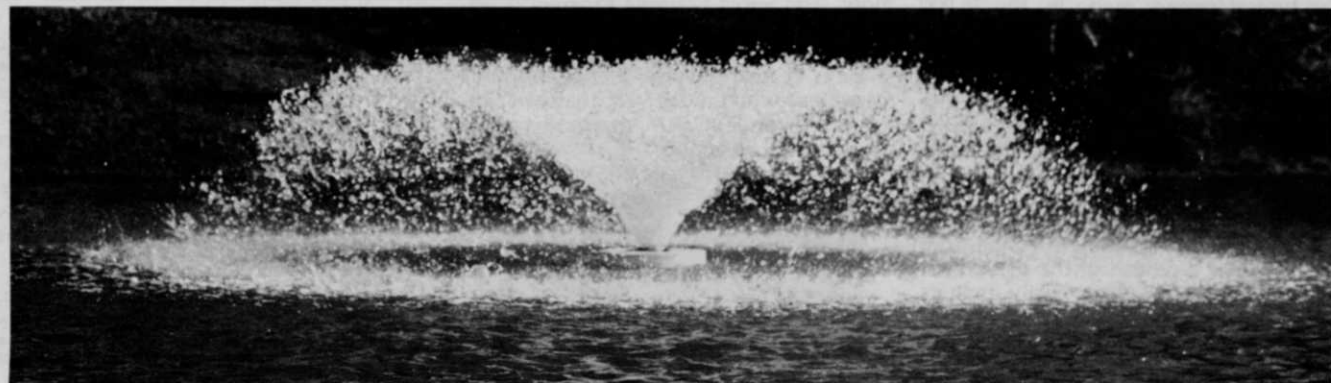
One way Mulkern tries to cut costs for his clients is by using their own plant materials. "Rather than buying additional plants we use

### Mulkern is dismayed at lowballing

their plugs instead," he remarked. "That way they are guaranteed of the same variety of grass at no additional cost." This is even a greater factor now that sod costs an average of \$3/sq. ft. wholesale. Mulkern also plants trees from client's cuttings. At one client he planted a mock orange tree to serve as a backup, just in case any of the trees in the front of the house failed.

Mulkern prides himself on his company's professionalism and he is dismayed at the lowballing tactics of some of his competitors. "A lot of newcomers get involved in landscape maintenance by getting a truck, mower and some tools," said Mulkern. "They feel the only way to get customers is to beat you on price. I feel they should bill out their work at reasonable rates and if they feel they are not qualified to do good enough work at more reasonable rates then they should join a landscaping association and improve their talents."

Besides being professional, Mulkern is very promotion-minded. Employees wear "Kevin J. Mulkern" t-shirts and company vehicles also carry the company logo. Mulkern also has professional brochures made up to publicize his business. "It is very competitive on Oahu and every little bit helps," said Mulkern. His mixture of professionalism, talent and concern has him nosing ahead of the competition. **WTT**



## OTTERBINE

## DAY OR NIGHT...SUMMER OR WINTER



OTTERBINE® Aerators can help you keep unsightly algal growth and objectional odors under control naturally. The fact that OTTERBINES also create beauty—is just one of the many benefits of using our Spray Sculpture™ Floating Fountains.

**WE CREATE BEAUTY  
WHILE SOLVING PROBLEMS**

**BAREBO, INC.** P.O. BOX 217 • EMMANUS, PA 18049  
(215) 965-6018 USA

Circle No. 102 on Reader Inquiry Card





# WOODS

## T42 Rotary Tiller

### The reliable helpmate

No matter what kind of soil preparation help is needed, the Woods Model T42 Rotary Tiller will provide it. Gardening, landscaping or small farming are all made easier by the remarkable features built into this profitable dirt buster.

It will till a 42" wide path down to 8" deep cleanly and easily with direct gear-drive and a unique blade design. Its spring-loaded tailgate leaves tilled soil in smooth, ready-to-plant condition.

It's easy to hook up with exclusive 2-point mounting. And it will work on any 16-25 hp tractor with a Category 1, 3-point hitch and 540 rpm PTO.

Like all Woods products, the Model T42 Rotary Tiller is built tough to take punishment and is virtually maintenance-free.

Put the Woods Model T42 to work for you and your customers. Send for complete specifications today.



Woods  
Model T50  
Rotary Tiller  
works a  
50" swath.



Division of Hesston Corporation  
Oregon, Illinois 61061

*Woods products are backed with 35 years of dependable quality.*



# GET TOUGH

on  
Dollar Spot  
Fusarium Patch  
Leaf Spot  
Brown Patch  
Red Thread

\*Approval Pending

## INTERIORS *from page 25*

operating temperature within the finished space is the most critical, but temperatures during the installation phases are critical as well.

An excellent example is the Park Avenue Atrium in which temperatures varied throughout the entire atrium during construction and early installations; this was a result of drafts caused by unsealed sections of the windows and glass wall. Temperatures were checked with maximum-minimum thermometers and pre-installation temperatures were noted to often be below 50°. Large industrial space heaters, were called in as back-up in case of emergency. As a rule, selected foliage material must be tolerant and able to adapt to the final on-going temperature range. The heating, ventilation and airconditioning (HVAC) system must be designed to avoid drastic conditions and monitored to eliminate extremes.

The water supply is another critical component to be examined early in the design stages. The water must be of a quality sufficient to meet the plants' needs, and if necessary, treatment procedures must be provided. In addition, access to both hot and cold water sources is essential. In cases where hoses are to be used to water, adequate sources are recommended to avoid the use of hose sections longer than fifty to seventy five feet.

Adequate drainage is critical for any planting. Positive drainage systems providing floor drains are the

best alternative. These drains are covered with some type of protective material to prevent clogging. Next to be installed would be a level of a coarse drainage material, followed by a Fiberglass soil separator, and finally the fill medium. With or without floor drains, a useful tool is the addition of a PVC pipe that reaches into drainage level. This should protrude above fill medium, hidden by planting, and provides the insurance of a check and removal system for excess water.

Support media must also be specifically designated to insure a high quality mix in the planting. One often recommended medium is a soilless mixture. The light weight of this mix, along with its high porosity for good drainage, make it desirable for many projects.

The actual drainage material for large material is usually gravel, chosen for its ability to support the heavy weights involved and to resist compaction. In areas where weight is a critical factor, perlite is often chosen for its lighter weight.

In cases where many varieties are planted in the same box, extra precautions must be taken to insure that each plant is in its preferred moisture condition. A good example of this situation can be found in the Park Avenue Atrium. In the same balcony planters that contain the Philodendron are a line of seasonal flowers that are changed every two weeks. These flowers need to be kept thoroughly moist to remain fresh. Small plastic pots without drainage, or "pot

# GET VORLAN™

Fungicide

Cures and prevents  
even resistant strains.

At your distributor now!

Tough new ways  
to protect your turf

Mallinckrodt

Mallinckrodt, Inc.

St. Louis • Jersey City • Los Angeles  
(800) 325-7155

In Missouri: (314) 982-5241



# GET TOUGH

on  
Cut Worms  
Chinch Bugs  
Sod Webworms  
Billbugs, Grubs and  
Many Other Insects

wetting each layer thoroughly for proper planting and necessary compacting. Hoists and other construction equipment may sometimes be necessary for the installation of larger plant material or for inaccessible areas.

Again using ChemCourt as an example, limited access areas must be considered early in a project. The ChemCourt has balcony planters 30 - 40 feet off the ground level. Backed by a permanent glass wall, these are accessible only from the atrium side. A hydraulic platform was required to plant these boxes. Extra care must be taken not to damage finished surfaces like carpeting, chrome and polished marble finishes.

Much of the success of an interior planting depends on the materials and methods described above but the continued success depends upon the service personnel who maintain the interior landscape. The unique flowering displays in the Park Avenue Atrium are changed every two weeks, all with off-hours labor. A total of twelve hundred (1200) seasonal flowers are changed. To insure a variety of flowers and special effects for seasonal displays, close cooperation between the owner and designer is essential. Gloxinia, poinsettias, chrysanthemums, azaleas and caladiums are some of the varieties that have been used and fully maintained. In addition, special holiday season displays are designed and installed many times each year.

*Continued on page 68*

shields," are placed in the planter. The seasonal flowers go into these "pot shields," and without overwatering the Philodendron, the flowering plants can be kept wet enough to permit their use in these locations.

Prior to installation, regular site inspections enable the interior landscapers to prepare their crew with the necessary equipment and develop delivery and installation coordination and scheduling. Installations often take place while the area is still under construction and accessibility to the planting site is often difficult.

It is often necessary to use an intermediate staging area to store materials. In conditions where temperature is a problem or access to unloading areas are limited, the early planning of a staging area can prevent serious problems.

Deliveries of most of the specimens in Chemical Bank's ChemCourt were organized in such a manner that each truckload was arranged to provide an efficient installation sequence. The delivery of large specimens were spread out over four days and the order that each plant was loaded (opposite to the order of unloading desired) was carefully planned.

A total of 7 trailers of materials were used; in one sequence 5 trailers of plant materials were delivered and installed in 5 days! After completion of drainage material installation, experienced crews begin filling the large built-in planters with layers of soil mix,

# GET DYMET™

**Insecticide**

Broad-spectrum,  
dual formula works  
safely and economically.  
Labeled for turf and ornamentals.

**At your distributor now!**

**Tough new ways  
to protect your turf**

**Mallinckrodt**

Mallinckrodt, Inc.  
St. Louis • Jersey City • Los Angeles  
(800) 325-7155

In Missouri: (314) 982-5241

Circle No. 118 on Reader Inquiry Card

## EVENTS

The current issue of **WEEDS TREES & TURF** carries meeting dates beginning with the following month. To insure that your event is included, please forward it, 90 days in advance, to: **WEEDS TREES & TURF, Events, 7500 Old Oak Boulevard, Middleburg Heights, OH 44130**

**21st Annual North Carolina Turfgrass Conference**, Pinehurst Hotel, Southern Pines, NC. **Jan. 4-6.** Contact L.T. Lucas, 3409 Gardner Hall, NCSU, Raleigh, NC, 27650, (919) 737-2751.

**Tennessee Turfgrass Conference**, Music City Rodeway Inn, Nashville, TN. **Jan. 6-7.** Contact Brenda Goins, Executive Secretary, Central South Turfgrass Foundation, 2837 Logan St., Nashville, TN 37211, (615) 832-7725.

**Maryland Turfgrass '83**, Baltimore Convention Center, Baltimore, MD. **Jan. 10-12.** Contact Dr. Thomas Turner, 112 H.J. Patterson Hall, University of Maryland, College Park, MD 20742, (301) 454-3716.

**Southeastern Pennsylvania Turf School and Trade Show**, Westover Country Club, Jeffersonville, PA. **Jan. 11-12.** Contact Keith Zanzinger, Chester County Extension Service, 235 W. Market St., West Chester, PA 19308, (215) 696-3500.

**Southeastern Pennsylvania Turf School and Trade Show**, Westover Country Club, Jeffersonville, PA. **Jan. 11-12.**

**Nebraska Turfgrass Conference and Trade Show**, Holiday Inn, Omaha, NB. **Jan. 11-13.** Contact Robert C. Shearman, University of Nebraska, Dept. of Horticulture, 377 Plant Science Bldg., Lincoln, NB 68583, (402) 472-1143.

**Ohio State University Landscape Design Short Course II**, Fisher Auditorium, Wooster, OH. **Jan. 12-14.** Advanced Landscape Design. (Short Course I is prerequisite). Contact Fred K. Buscher, Area Extension Center, OARDC, Wooster, OH 44691, (216) 262-8176.

**New Hampshire Turf Conference**, Sheraton-Wayfarer Motor Inn, Bedford, NH. **Jan. 13-14.** Contact John M. Roberts, Extension Specialist, Cooperative Extension Service, University of New Hampshire, Plant Science

Dept., Nesmith Hall, Durham, NH. (603) 862-1200.

**Rocky Mountain Regional Turfgrass Conference**, Colorado State University Student Center, Ft. Collins, CO 80523. **Jan. 13-14.** Contact Jack D. Butler, Dept. of Horticulture, CSU, Shepardsen Bldg., Ft. Collins, CO, (303) 491-7070.

**53rd Annual Michigan Turfgrass Conference**, Lansing, MI. **Jan. 18-19.** Contact Dr. Paul Rieke, Michigan State University, Dept. of Crop and Soil Sciences, East Lansing, MI 48824, (517) 355-0266.

**Virginia Turfgrass Conference and Trade Show**, Norfolk, VA. **Jan. 18-20.** Contact Dr. John Hall, Agronomy Dept., Virginia Polytechnic Institute and State University, Blacksburg, VA, 24061, (703) 961-5797.

**Iowa Turfgrass Conference**, Des Moines, IA. **Jan. 19-21.** Contact Norman Hummel, Horticultural Dept., Iowa State, Ames, Iowa, 50011.

**Maine Nurserymen's Association Annual Meeting**, Augusta Civic Center, Augusta, ME. **Jan. 20.** Contact Richard Churchill, Executive Secretary, MNA, PST/SMVTI, South Portland, ME 04106, (207) 799-7303.

**Ohio Nursery Short Course and Trade Show**, Hyatt Regency, Columbus, OH. **Jan. 24-27.** Contact Dr. Elton Smith, Ohio State University, 2001 Fyffe Court, Columbus, OH 43210, (614) 422-9775.

**University of Tennessee Winter Short Course**, University of Tennessee. **Jan. 24-27.** Contact L.M. Callahan, Dept. of Ornamental Horticulture, P.O. Box 1071, University of Tennessee, Knoxville, TN 37901, (615) 974-7324.

**Northern California Professional Turf and Landscape Exposition**, San Mateo, CA. **Jan. 26-27.** Contact Chet Sarsfield, NCTC, P.O. Box 268, Lafayette, CA, 94549, (415) 283-6162.

**National Christmas Tree Association Fourth Annual Christmas Tree Marketing Conference**, North Park Inn, Dallas, TX. **Feb. 11-12.** Contact National Christmas Tree Association, 611 E. Wells, St., Milwaukee, WI 53202.

## INTERIORS from page 67

Due to the widely differing environments encountered, varying service techniques must be employed. Continual supervision is essential to ensure that no disease or watering problems develop that might elude a service technician. In heavily planted areas, preven-

Acclimatization should begin six months before installation.

tive spraying programs by licensed pesticide applicators are a logical step. In spraying large planted areas, special care must be taken to protect the surrounding areas with plastic tarpaulins.

Special crews must also be scheduled to perform the periodic cleaning and pruning necessary for large specimens. Equipped with ladders, brooms, hand pruners, and pole pruners, these crews do most of their work at night to allow minimum disruption in the work space.

The future of indoor gardens and spectacular atria like these looks very bright. Experiments in lighting methods are presently being carried out with the hope that more efficient, less expensive means to light large spaces can be developed. In addition, careful testing by the contractor of flower-

The future of indoor gardens and spectacular atria looks very bright.

ing plants that can exist in the stressful indoor environment holds promise for more colorful and varied indoor plantings. Exotic flowers, such as Gerbers, Arabian violets, and New Guinea Impatiens are being evaluated for durability on-site prior to installing large quantities.

As the complexity of these plantings increases, the need for close cooperation between the designers and the interior landscape contractor also increases. This cooperation holds great promise for the interior landscaper's continued rise in stature and professionalism.





*Even in shade*

# ECLIPSE

**KENTUCKY BLUEGRASS**

*outshines them all.*

More proof that Eclipse is the quality Kentucky bluegrass that's a shade better...and better in the shade! In a three-year bluegrass shade study conducted under natural shade of locust and cherry trees by the Virginia Polytechnic Institute, only Eclipse was rated best in shade performance each year of the test.

Low growing, dark green, disease and insect resistant, Eclipse is the ideal base for sod blends and turf seed mixtures for golf courses, parks, playing fields, and home lawns, coast to coast.

Eclipse gives you the best of both worlds—outstanding overall turf performance plus superb shade tolerance. Any way you look at it, Eclipse outshines them all.



Eclipse Kentucky bluegrass seed available exclusively from:

**GARFIELD WILLIAMSON, INC.**, 1072 West Side Avenue, Jersey City, New Jersey 07306

**GEORGE W. HILL & COMPANY**, P.O. Box 185, Florence, Kentucky 41042

**JACKLIN SEED COMPANY**, W. 5300 Jacklin Avenue, Post Falls, Idaho 83854

**PACIFIC GREEN—NUNES**, Camarillo, California 93010; Patterson, California 95363

**PIONEER HI-BRED, Turf Div.**, P.O. Box 346, Savage, Minnesota 55378

**ROTHWELL SEEDS (IN CANADA)**, P.O. Box 511, Lindsay, Ontario K9V 4L9

Eclipse has been granted Plant Variety Protection Certificate No. 8000154



## CLASSIFIEDS

**RATES:** 95 cents per word (minimum charge, \$20). Bold face words or words in all capital letters charged at \$1.20 per word. Boxed or display ads charged at \$75 per column inch (one inch, minimum). Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add \$5 to total cost of ad. Send ad copy with payment to Dawn Anderson, WEEDS TREES & TURF, 1 East First Street, Duluth, MN 55802.

**BOX NUMBER REPLIES:** Mail Box number replies to: WEEDS TREES & TURF, Classified Ad Department, 120 W. 2nd St., Duluth, MN 55802. Please include box number in address.

## BUSINESS OPPORTUNITIES

**WANT TO BUY OR SELL** a golf course? Exclusively golf course transactions and appraisals. Ask for our catalog. McKay Golf and Country Club Properties, 15553 N. East Street, Lansing, Michigan 48906. Phone (517) 484-7726. TF

**FOR SALE—Successful RETAIL NURSERY and LANDSCAPE BUSINESS.** Prime location on main Hwy in heart of town. Well equipped and fully stocked. Complete irrigation system from lake on premises. **STEADY CASH** flow and active Landscape Contracts. Asking \$225,000.00. Owner will help finance (813) 842-6851. TF

**PRIME GOLF COURSES FOR SALE.** Professional golf course brokers & consultants. **FAIRWAY BROKERS**, 14315 W. 30th Ave., Golden, Colorado 80401 (303) 278-GOLF. TF

Small lawn maintenance company located in rapidly expanding area of Colorado. Accounts and equipment. Send inquiries to: P.O. Box 341, Berthoud, CO 80513. 2/83

**WE'LL LIQUIDATE** your distress Lawn and Garden Chemicals, case goods, fertilizers for cash. Call Joe Loveland, (402) 331-5262, 9816 F Street, Omaha, Nebr. 68127. 2/83

**START YOUR OWN SOIL TESTING SERVICE.** High Profits—Easy to get started. Takes the guess work out of Professional Turf Care Management. Unlike the amateur N-P-K/ph test like the homeowners use. This is a thorough 14-Point Professional Laboratory Analysis with recommendations by certified Turf and Soil Experts. It's what you need to set you apart from your competitors. Makes you the Pro—Keeps your customers loyal. A \$23 analysis for just \$12.00. Send samples to us. You get the results back in two weeks. A \$50 deposit gets you set-up with all the materials you need to market and service your customers and future prospects. We do the work—You come out ahead! Green Pro Cooperative Services, 380 S. Franklin Street, Hempstead, NY 11550. (516) 483-0100. 4/83

## FOR SALE

**NEW TREE FERTILIZATION GUN**, tested on over a million square feet of trees and shrubs all over the U.S. Good to 500 psi, repairable, non-corrosive. Buy direct from manufacturer, \$75.00 + shipping Arbor-Nomics, Inc., 5634-A Buford Highway, Atlanta, Georgia 30071. (404) 447-6037. 1/83

Northern grown pure Meyer zoysia (Z-52), your great water and \$ saving turf (row planting). Beauty Lawn Zoysia (Cincinnati) (513) 424-2052. 10/82

**LIVE OAKS**—Trees 1 gal. Quercus Virginiana. Available Sept.-Feb. \$1.75 ea.; Quantity Discounts Available up to 35%. Liners Available. Las Colinas Greenhouses, P.O. Box 61208, DFW Station, Dallas, Texas 75261. (214) 243-8209 or 243-8215. 1/83

**LAWN SEED.** Wholesale. Full line of top quality grasses. Improved bluegrass varieties, fine fescues and fine bladed ryegrasses. We specialize in custom mixing. Oliger Seed Company, 2705 Wingate Avenue, Akron, Ohio 44314. Call collect (216) 753-2259. 4/83

**SOD-GRASS-SPRIGS** Hy Bermuda 419 & 328 —\$1.10/sq. yd., Meyer Z-52 Zoysia—\$2.25/sq. yd., Centipede—\$1.50/sq. yd., Sprig prices quoted—ship anywhere Bayou Pierre Turf Farms, Carpenter, MS 39050. (601) 885-8281 or 956-5034. TF

## MOST EFFECTIVE DEER REPELLENT

Developed by the Weyerhaeuser Co. EPA approved for conifers, non-bearing fruit trees, ornamental shrubs. Used by foresters, orchardists, tree growers, homeowners. Proved over 85% effective—lasts about 2 months.

Spray on liquid form in dry weather OR dust on powder in wet conditions.

**ORDER FROM YOUR FORESTRY SUPPLIER, OR DIRECT**

1 gallon kit (2-part system, mix with water) OR 16 oz powder (no mixing) \$23.50. Both protect about 400 trees 2 ft. tall. 5 gal. kit OR 5 lbs. powder \$78.00 Postage Paid. Send check to:

**DEER-AWAY™**  
Dept. WTT  
712 15th Avenue NE / Minneapolis, MN 55413



**CLOSEOUT SPECIAL!** Save your back issues of WEEDS TREES & TURF and save money at the same time. We're closing out our line of permanent binders at the special low price of two for only \$7.50! (This is a \$7.00 savings over our regular price plus postage and handling.) Orders will be filled as long as our supply lasts—quantities are limited. Order your binders today from: Book Sales, HBJ PUBLICATIONS, One East First Street, Duluth, MN 55802. TF

## USED EQUIPMENT

**HI-RANGERS AERIAL BASKETS** 65', 57', and 53'. Skyworkers aerial baskets 65', 50', 40'. Vermeer stump cutter 1560.6. Vermeer tree spade 66, TS 44. Asplundh bucket and brush chippers, Bean sprayer, 9 ton trailer. Parkway Tree Service, 12026 W. Cherry, Wauwatosa, Wisc. 53226. (414) 257-1555. TF

Hi-Ranger Bucket Trucks—90', 70', 65', 52' and 48', also Asplundh, McCabe, Pitman and Skyworker. Brush chippers, Vermeer stumpers, Prentice loaders, Vermeer TS 44 and 66, small cranes. Allied Utility Equipment, Inc., W204 N11509 Goldendale Road, Germantown, Wisconsin 53022, (414) 255-6161 Anytime. TF

Bean Rotomist Sprayer Model 100G, used twice, \$10,000 or best offer. (804) 973-4577. TF

**FOR SALE**—2 model 91 Bean Rotomists Completely Rebuilt \$7,300.00 each, 1 model 51 Bean Rotomist Completely Rebuilt \$4,700.00, North-eastern Associates (201) 256-7120. 1/83

IHC 5614 rough terrain forklift 14' mast \$5200. IHC 2424 Lo-Boy tractor gas. 3 pt. P.T.O. turf tires, mower \$2750. IHC 500C diesel crawler loader Drott 4-in-1 \$6250. CAT 955H crawler loader \$6750. Vermeer 470 articulated 4x4 tractor with backhoe, 6-way dozer, carbide tip ditcher 1 gas @ \$4750, 1 diesel @ \$5750. Chev. C-60 with highway digger derrick 10,000# cap winch 33' boom aerial basket. Utility box, excellent \$5000. Bronco 4x4 diesel articulated loader, cab \$6750. (312) 438-5101. 1/83

**HYDRO-MULCHERS AND STRAW BLOWERS.** New and used. Southwest Hydro-Mulchers, 3220 S. Jupiter Rd., Garland, Tx. 75041. (214) 840-2440 (Tx.), (800) 527-2304 (except Tx.) TF

**CHIPPER, 1979 FMC WAYNE 16", MODEL C-16, APPROX. 100 HOURS, LIKE NEW, ASKING \$8,000.00. CLEVELAND, OHIO. (216) 729-7645. 1/83**

**JACOBSEN SLIT SEEDER** used less than 50 hours \$2500. **RYANAIRE AERATOR \$900. RYAN POWER THATCHER \$500.** All excellent condition. Contact Dennis Anderson (312) 438-4770. 1/83

**TREE SPRAYER** for sale. 500 gallon tank, 40 gallon per minute pump, excellent condition. For information call Horizon Estates Landscape Co., Franklin Lakes, New Jersey. (201) 891-9356. TF

For Sale: Buckner—Thirty FC-10 Electric Control Clocks, two CP-2 Central Programmers. All equipment working. North Palm Beach Country Club, North Palm Beach, Fla. (305) 626-5252, Mon.-Fri.-6 a.m.-3 p.m. 1/83

**FOR SALE: USED TREE DIGGING EQUIPMENT.** Big John 88", 78", 60". Care tree 30", 40", plus others. For List: Turf & Tree Supplies, Inc., P.O. Box 292, Rockton, IL 61072, (815) 624-7578. 1/83

For Sale—John Bean 1000 tank with 60 g.p.m. pump with Hanney reel. \$8,500.00 firm. Write: Grove Garden Landscape Co., P.O. Box 321, Sharon, MA 02067, or call: (617) 784-5109. 1/83

**FOR SALE**—Used and rebuilt Big John Tree Transplanters, 50", 60", 78", 88", some with trucks. Used Vermeer PS44 planter with truck, also new Big John Tree Transplanters. Call (501) 362-8161, toll free, (800) 643-8039. 4/83

## Used Spray Units For Sale

1,250-gallon stainless steel tanks. Mechanical agitation. FMC 20 gallon/minute pump. Hanney electric reel. Ford F600 and Chevy C60's—'76's, '77's, '78's and '79's.

Call (502) 241-7341. TF

**SKYWORKER AERIAL BUCKETS:** Sales, Parts and Service. New and used units available to 65 feet. New and Used brush chippers, Hydro Ax's, used stumpers, sprayers and digger derricks also available. Call or write P.C. GOULD SALES COMPANY, Plains Road, Essex, Conn. 06426. (203) 767-1636. 2/83

**NEW and USED EQUIPMENT** Hi Ranger and Asplundh Forestry bucket trucks, Asplundh and Chipmower wood chippers, Stump Grinders, Log Splitters, Crane Trucks. Mirk Inc. (216) 669-3567 (216) 669-3562, 7629 Chippewa Road, Orrville, Ohio 44667 TF