## A wealth of instructional and technical material designed to make your job easier

## **Bookstore**

101, 015 - ADVANCES IN TURFGRASS PATHOLOGY \$27.95 hardcover, \$18.95 paperback

340 - CONSTRUCTION DESIGN FOR LANDSCAPE ARCHITECTS \$24.50

345 - COST DATA FOR LANDSCAPE CONSTRUCTION 1981 \$24,95

410 - DISEASES & PESTS OF ORNAMENTAL PLANTS \$26.50

660 - DISEASES OF SHADE TREES \$23.50

610 - DISEASES OF TURFGRASS \$30.00

795 - FIRST AID MANUAL FOR CHEMICAL ACCIDENTS

\$16.50 paperback

440 - FUNDAMENTALS OF ENTOMOLOGY & PLANT

PATHOLOGY \$22.00

450 - GARDENING IN SMALL PLACES \$7.95

455 - GRAFTER'S HANDBOOK \$16.95

480 - GREENHOUSE MANAGEMENT FOR FLOWER AND PLANT

PRODUCTION \$15.35

490 - GREENHOUSE OPERATION & MANAGEMENT \$19.95

670, 680 - GUIDE TO TREES \$19.95 hardcover, \$8.95 paperback

350 - HANDBOOK OF LANDSCAPE ARCHITECTURAL

**CONSTRUCTION \$48.50** 

360 - HOME LANDSCAPE \$18.95

510 - HORTUS THIRD \$99.50

690 - INSECTS THAT FEED ON TREES & SHRUBS \$42.50

530 - INTERIOR PLANTSCAPING \$28.50

540 - INTRODUCTION TO FLORICULTURE \$29.50

335 - LANDSCAPE DESIGN THAT SAVES ENERGY

\$9.95 paperback

370 - LANDSCAPE OPERATIONS: MANAGEMENT, METHODS

& MATERIALS \$18.95

380 - MANUAL OF WOODY LANDSCAPE PLANTS \$19.00

545 - MODERN WEED CONTROL \$19.50

665 - OXFORD ENCYCLOPEDIA OF TREES OF THE

WORLD \$24.95

780 - PARK AND RECREATION MAINTENANCE MANAGEMENT \$18.95

355 - PERSPECTIVE SKETCHES \$19.50

390, 395 - PHOTOGRAPHIC MANUAL OF WOODY LANDSCAPE

PLANTS \$22.00 hardcover, \$14.60 paperback

365 - PLAN GRAPHICS \$21.00

700 - THE PRUNING MANUAL \$14.95

790 - RECREATION PLANNING AND DESIGN \$31.95

375 - SITE DESIGN AND CONSTRUCTION DETAILING \$24.00

730 - TREE CARE \$8.95

740 - TREE FARM BUSINESS MANAGEMENT \$20.50

750 - TREE IDENTIFICATION \$9.00

760 - TREE MAINTENANCE \$29.95

385 - TREES FOR ARCHITECTURE AND THE LANDSCAPE \$11.95

770 - TREE SURGERY \$18.95

650 - TURFGRASS MANAGEMENT \$17.95

630 - TURFGRASS: SCIENCE & CULTURE \$23.95

640 - TURF IRRIGATION MANUAL \$22.95

620 - TURF MANAGEMENT HANDBOOK \$14.65

110, 120 - TURF MANAGER'S HANDBOOK \$23.95 hardcover, \$18.95 paperback

565 - WEEDS \$32.50

Prices subject to change.

Quantity rates available on request

560 - WEED SCIENCE \$24.00

570 - WESTCOTT'S PLANT DISEASE HANDBOOK \$34.50

580 - WYMAN'S GARDENING ENCYCLOPEDIA \$29.95

#### CLOSEOUTS

#### ORDER THESE TITLES AT SPECIAL REDUCED PRICES!

420 - EXOTIC PLANT MANUAL \$32.00

430 - FLOWER & PLANT PRODUCTION IN THE GREENHOUSE \$13.60

460 - GREENHOUSE ENVIRONMENT \$21.20

470 - GREENHOUSE GROWER \$12.40

500 - HORTICULTURAL SCIENCE \$18.80

780 - PARK AND RECREATION
MAINTANENCE MANAGEMENT
\$16.00

550 - PLANT PROPAGATION \$21.00

400 WESTERN HOME LANDSCAPING \$6.75

Name	The state of the s	73	A Commence of	
Address		News Lines	A MANAGEMENT	
City	State		Zip	
Signature	StateZip			
Phone Number	it delisadente	out our old	r katalat ahard St	
Please send me the following boo Please charge to my Visa, Master Account Number	Card or American Ex		ne)	
ORDER NUMBER	QUANTITY	PRICE	TOTAL PRICE	
	Syungel	na Ross	del districto	
data semon ling goldsty	Carlo	Cip god sin	IN IOLE OF VALUE	
NOT well begins nowed and	Common India	ACT IN IT		
	199 Dalley 25 Harris A.		to in but me made	
annually by the America		ATTACA DESIGNATION		

MARCH 1982/WEEDS TREES & TURF

Total Enclosed

**WTT 32** 



## **UPDATTE**

#### **ASGCA** predicts increase in construction

The American Society of Golf Course Architects expects the number of new golf courses started in 1982 to exceed those of the past year due to increasing demand and declining interest rates. "Studies show that more seniors and women are playing golf than ever before," President Dick Nugent stated, "and the nation's architects are responding by making the courses more versatile through the use of multiple tees and other design techniques."

Nugent believes that there is a pent-up demand for all types of golf courses—development, resort, municipal, public fee, and executive. "The architect has been able, in many instances, to take 'unusable' land and create a challenging course," the ASGCA president noted, "and we will see more creative work done on landfills, abandoned strip mines, flood plains, hilly areas, and other sites not previously considered for golf courses."

Nugent said that the architect must create a delicate balance between aesthetics and easy maintenance. In many cases, he pointed out, newer courses will have a more natural look. By leaving seldom-used areas in native grasses or flowers, courses are easier to maintain and present new challenges to the player. "Wall-to-wall green is not necessary for a great golf course," Nugent said. "Just take a look at the famous courses in Scotland."

Water availability is an increasing problem for golf courses across the country, particularly in the West, and Nugent predicts that more new and existing courses will be using effluent water for irrigation. "Many courses are tying into local water treatment plants to satisfy their needs and eliminating the need for local municipalties to release wastewater back into streams and lakes," Nugent added.

#### New Hampshire supers hold turf show

Despite inclement weather, the New Hampshire Golf Course Superintendents Association had a large turnout for their Turf Conference and Trade Show in Bedford, NH. Association President Barrie Robertson awarded the distinguished service award to Lou Douval, York, ME, Golf and Tennis. Ray Richard and Jim LaMorder, students at the University of Massachusetts winter turf school, received the annual scholarship awards.

The guest speakers included Dr. Stanley Swier who spoke on the current gypsy moth plague in the Northeast, Dr. Richard Skogley, University of Rhode Island, who spoke on topdressing, and Dr. Joseph Vargas, University of Michigan, who described the various diseases observed during the past year.

#### **Cornish Wins Ross Award**

Geoffrey S. Cornish, one of North America's leading golf course architects and co-author of "The Golf Course", has been named the 1982 winner of the Donald Ross Award presented annually by the American Society of Golf Course Architects to a person who has made significant contributions to the game of golf, especially golf course architecture.

Cornish received the Donald Ross award, named in honor of the "father of American golf course architecture," during the ASGCA annual meeting at the Breakers Hotel in Palm Beach, FL., February 22.

Previous recipients of the Donald Ross Award include Robert Trent Jones, Herbert Warren Wind, Herb and Joe Graffis, Joe Dey, Gerald Micklem, and Gov. James Rhodes of Ohio.

with entertaining anecdotes from his coverage of golf and the Olympic Games. Proving to be a personable celebrity, McKay spoke with many of the superintendents prior to his address and then ended his talk with an extended question-and-answer period.



ABC Sportscaster Jim McKay.

Twelve of the nation's leading experts on water and golf trotted out their views during the Water Symposium held Monday and Tuesday afternoon. Many of the superintendents appreciated the opportunity to hear an expanded discussion of such an important topic. "The main reason I come to this show is the seminars and the Water Symposium was better than I expected," said Larry Pakkala, superintendent at St. Andrews Country Club, Scarsdale, NY.

On Monday evening the Grand Salon of the Hilton was the site of the show's Mardi Gras reception. Frankie Mann and a host of local jazz artists treated the packed house to a number of New Orleans-style tunes. When the band hit its final note the real show was just beginning. Much to everyone's surprise and delight, the salon was transformed into a mini-French Quarter replete with harlequins and Mardi Gras paraders. Kings, queens, dukes and fair maids strutted amidst the crowd tossing trinkets. Their glittering outfits (part Las Vegas showgirl, part peacock) were a sight to behold, particularly to New Orleans newcomers.

Following the revelry of the previous evening, Tuesday morning brought on the brass tacks of the conference — the trade show. A sea of superintendents gathered for the 9 a.m. ribbon cutting and flooded the exhibit hall when the

Continues on page 14



## Long lasting crabgrass control just takes one application.

Whether for bluegrass, fescue, bentgrass, or Bermudagrass, it's a fact that more turf care professionals demand Betasan herbicide over any other brand.

The simple reason. Betasan delivers the maximum amount of crabgrass control with a minimum amount of effort.

Just one application at labelled rates stops crabgrass before it starts. Stops it without hurting established turf. And stops it in most of the U.S. all season long. That's the furthest man has come in fighting crabgrass. But you don't have to go far for your own supply. Just to the distributors listed here.

They've all put Betasan into their own herbicide products. Because they want to bring turf care professionals the ultimate in protection against crabgrass.

Follow label directions. Stauffer Chemical Company, Agricultural Chemical Division, Westport, CT 06881.

T.M. of Stauffer Chemical Company.

Firm	Brand Name	Sales Area	Firm	Brand Name	Sales Area
Agway, Inc. Syracuse, New York	Betasan 7-G	Northeast	Mallinckrodt, Inc. St. Louis, Missouri	Pre-San 4-E, 12.5-G and 7-G	National
The Andersons Maumee, Ohio	Betasan plus fertilizer	Midwest	Occidental Chemical Co. Lathrop, California	Best 4-E and 12.5-G	West Coast Southwest
Balcom Specialty Products Greeley, Colorado	Clean Crop Betasan 4-E and 7-G	National	PBI Gordon Corp. Kansas City, Kansas	Betamec-4	National
Faesy & Besthoff, Inc. Edgewater, New Jersey	F&B Betasan 4-E, 3.6-G and 7-G	Northeast	Pratt-Gabriel Div. Miller Chemical and Fertilizer Co.	Pratt 4-E, 12.5-G, 7-G	Northeast
Lakeshore Equipment and Supply Co., Inc. Elyria, Ohio	Lescosan 4-E,12.5-G and 7-G Betasan plus fertilizer	National	Pro-Lawn Products, Inc. Syracuse, New York	Betasan 7-G	Northeast
Lebanon Chemical and Fertilizer Corp. Lebanon, Pennsylvania	Lebanon Betasan plus Fertilizer, 4-E and 7-G	National	Rockland Chemical Co. West Caldwell, New Jersey	Rockland Betasan 4-E, 12.5-G and 7-G Betasan plus fertilizer.	Northeast

## LANDSCAPE

## UPDATE

#### ASLA institutes "return of dues" program

The American Society of Landscape Architects has instituted a new membership benefit for 1982 termed the Return of Dues Program. All national dues paid by each member after the program begins will be returned to the member at age 70 or to the member's estate upon death. The amount will be returned as long as continuous membership in ASLA is maintained.

The Return of Dues Program will be provided for all dues-paying Fellows, Members, Associates and Affiliates at no additional expense to each member. ASLA will pay all costs. Accrual of benefits will begin at the first renewal of membership. First year dues submitted with an application will not apply. If membership is dropped for any reason or dues are not submitted, the member will lose all claim to amounts accrued at that time. Upon re-entering ASLA, members will begin accruing return of dues credit from zero.

In other ASLA news, the Society has moved to its new headquarters. The new address, effective immediately, is: ASLA, 1733 Connecticut Avenue, N.W., Washington, DC 20009.

#### **ALCA elects officers for 1982**

The officers of the Associated Landscape Contractors of America were elected at its Annual Membership Meeting held recently at the Riviera Hilton, Palm Springs, CA. Ray Gustin automatically moved up to president, having served as president-elect for the past year. Gustin is president and owner of Gustin Gardens.

Other officers elected were: president-elect, David Pinkus, North Haven Gardens, Dallas, TX; vice presidents, Landon Reeve, Chapel Valley Landscape, Woodbine, MD; and Rodney Bailey, Evergreen Services Corp., Bellevue, WA; treasurer, Irvin Dickson, ChemLawn, Atlanta, GA; and secretary, Karl Korstad, Sedgefield Interior Landscaping, Greensboro, NC. 1981 President Allen Keesen automatically became immediate past president.

Executive Director Alan Smith commented that the meeting featured "the most aggressive seminar program of ALCA to date, particularly the interior sessions." Smith also noted that attendance was higher than anticipated.

#### **IPA launches Media Year**

The Interior Plantscape Association has declared 1982 as its Media Year. The underlying theme for the year is "The Interior Plantscape Specialist ... the Professional Difference." The thrust of the campaign is to acquaint the public as well as designers, architects and landscape architects with the specifics of the job done by interior plantscape professionals.

Media Year is a promotional vehicle created for plantscape specialists as well as IPA. In the past year the association coined the phrase "The Interiors Team" to publicize that plantscapers be included in the roster of individuals who contribute to the design and well-being of a building. IPA is currently discussing plans to set up a committee of marketing experts that would evaluate the effectiveness of members' marketing plans that are submitted. A nationwide competition (with winning plans displayed at the Fourth Annual IPA Meeting in Portland in October) is also underway.

To publicize the plantscaping profession, officers and staff of IPA will be attending meetings, explaining association programs and offering to exchange speakers and information. A speaker's pool has been formed to address the various interested related professional on such topics as the aspects of interior plantscaping for designers and plantscaping for architects. doors opened. The Riverside Convention Center proved to be a fine showcase for the 212 turf, chemical and equipment exhibitors. Superintendents continually filled the hall. Exhibitors were seen answering inquiries and transacting business right up to the Thursday 2 p.m. closing time. Some exhibitors, however, believed that the aisles were narrower than in previous years and those companies relegated to the mini-hall across from the main show floor received noticeably less superintendent traffic.



Part showgirl, part peacock.

One of the major traffic builders for some exhibitors was Weeds Trees & Turf's "Long Green Sweepstakes." Ten companies (BFC Chemicals, Dow Chemical USA, Mobay Chemicals, Milwaukee Sewerage Commission, RainBird Sprinkler Mfg., Ransomes, Safe-T-Lawn, Standard Golf, Stauffer Chemical, and Vandermolen) participated in the sweepstakes and many of them had superintendents lined up waiting to fill out entry blanks. The \$1000 first prize was won by Keith Scott, Oak Ridge Golf Club, Hopkins, MN. Scott registered at the Ransomes booth. Gary Stafford, Cardinal Golf Club, Greensboro, NC, picked up the \$500 prize (Stauffer Chemical booth); while Paul Latshaw, Oakmont Golf Club, Oakmont, PA, won \$250 (Safe-T-Lawn booth).

For the second year in a row the USGA Green Section held its Educational Conference in conjunction with the GCSAA show. At the conference (held Wednesday, 9 a.m. to 2:30 p.m.) it was announced that William Bengeyfield has stepped in to fill the shoes of the retiring Al Radko as national director of the Green Section. The theme of the conference was "The Good Earth Needs Good Golfing Turf" and the

Continues on page 18



No one grass seed combines every characteristic for every type of turf. That's why Northrup King research has developed a complete line of Medalist Turf Products to meet specialized professional needs.

MEDALIST TURF PRODUCT	MAJOR AREAS OF USE	SPECIAL FEATURES	
Athletic Pro Mix	High maintenance athletic turf	Both are well suited for new seeding or overseeding. Fast establishing, excellent traffic tolerance, and rapid recovery. Provides good footing.	
Athletic Pro II Mix	Low to moderate maintenance athletic turf.		
Boulevard Mix	Any area with high pH (roadsides, sidewalks, boulevards, beachfronts, etc.)	Contains both "Fults" <i>Puccinellia distans</i> and Dawson red fescue which thrive on high saline or alkaline soils. Performs at low to high fertility levels.	
Landscape Pro Mix	School grounds, cemeteries, golf course roughs, lawns	Fast establishing. Adapts to broad range of conditions and management levels.  Low to moderate fertility requirements.	
Overseeder II Mix	Fairways, tees, athletic fields	Fast establishing, traffic tolerant, disease resistant, penetrates compacted soil.	
Overseeder III Mix (Formerly Medalist North Mix)	Fairways, tees, cart paths, wear areas	Long term quality in high traffic areas. Clean mowing and disease tolerant.	
Premium Sod Blend	Commercial sod producers	Fast establishing, exceptional dark green color, shade tolerant, superior disease resistance.	
Special Park Mix	Parks, commercial developments, lawns	Low fertility tolerance, shade tolerant, adapts to wide range of soil types.	

Ask your Northrup King distributor about the Medalist Turf Products for your needs. Or write Northrup King Medalist Turf Products, P.O. Box 959, Minneapolis, MN 55440.



Trimec® Turf Herbicide: the undisputed champion of post-emergence broadleaf herbicides.



Your Gordon Distributor: he has a toll-free line direct to our Technical Services department.



Betamec-4: the premier pre-emergence herbicide for crabgrass, poa annua and other grassy weeds.

# We'll send you \$10 if you'll try the "three musketeers" of immaculate turf.

They are Trimec<sup>®</sup>, Betamec-4, and your Gordon Distributor. Together this trio can make you and your turf look good.

In this day and age, the search for bargains is a way of life. Even professional turfmen are caught up in the current. True, your primary objective is to achieve immaculate, pristine, weed-free turf. But somewhere in the background is the man with the checkbook who wants you to operate within a budget.

Such budget pressures can tempt even the most professional of the professionals to toy with the thought of cost per gallon rather than cost per acre of immaculate weed-free turf.

So if it's money you're thinking about, we're not adverse to sending you a little of it if you'll let us prove to you that, dollar-for-dollar and acre-for-acre of immaculate weed-free turf, it's still cheaper to go first class.

Specifically, we'll send you a check for \$10 if you'll try Gordon's "three musketeers" of immaculate turf: Trimec; Betamec-4; and your Gordon turf distributor.

## Why crabgrass and poa hate Betamec-4

Betamec-4 is unparalleled in the field of selective pre-emergence herbicides, and is preferred by turf specialists who want dependable results. Consider just a few of its unique advantages.

...It has an extended life, which means you can apply it on your time table rather than nature's germination schedule. Can be applied in the fall or early spring for all-season control.

... Because it's a liquid it stays in place, and thus is effective over an entire terraced area of turf.

... And it is so gentle to established turf and around herbaceous ornamentals. It has been applied at twice the recommended rate without causing damage.

## How Trimec saves you time and money

Trimec is unparalleled in the field of selective post-emergence herbicides. It is a patented herbicide No. 3,284,186 manufactured

by PBI/GORDON Corporation. Three chemicals: 2,4-Dichlorophenoxy acetic acid, 2-methyl-4-Chlorophenoxy propionic acid; and 3,6-dichloro-o-anisic acid are all reacted as acids to form the dimethylamine salt of Trimec. The resulting Trimec product has unparelleled strength caused by the synergism that occurs from reacting the three acids.

And yet, the cost per acre is low because the synergistic action of Trimec is fully effective with a small amount of chemical which translocates to the root system, resulting in a high degree of kill.

## A friend in need is a friend indeed

The third member of the team is your Gordon Professional Turf Distributor. He will not only provide you with Betamec-4, Trimec, and a complete line of turf chemicals at a price that will leave you plenty of room to breathe. He will also back you up with technical knowledge to help you solve — or avoid — the problems that plague the professional turfman.

Go to any of the Gordon distributors listed on the opposite page and order five gallons of Betamec-4 and five gallons of Trimec. Get an invoice proving purchase and send it with the coupon. We'll send you a check for \$10.

#### **Gordon's Authorized Distributors:**

#### **ALABAMA**

Norala Company • Tieco, Inc.
 Gadsden • Markers of Clubview
 Montgomery • CASSCO • Tieco, Inc.

#### ALASKA

ARIZONA
Phoenix • Arizona Agrochemical Co.
• Capital Nursery Supply
• Target Chemical Co.
Tucson • A.C.R.E., Inc.

ARKANSAS llexander • Capitol Equipment Co. lorth Little Rock • Turf Aid, Inc.

Searcy
- Affilliated Growers & Retailers of

#### **CALIFORNIA** Robinson Fertilizer Co.

Bakersfield

Abate-A-Weed & Insect Control Cerritos - Target Chemical Company Chula Vista - Wilbur-Ellis Company Coachella - Foster-Gardner, Inc.
Fillmore - Coastal Division
Fremont - El Camino Supply Co.
Fresno - Target Chemical Company
Los Angeles - Van Waters & Rogers
Manteca - L. & A Enterprises
Oxnard - Coastal Division
Sacramento - Orchard Supply Co. Name - Castal Division
Sacramento - Orchard Supply Co.
San Diego - Buttler's Mill. Inc.
San Gabriel - J. Harold Mitchell Co.
San Jacinto - Coastal Division
San Jose - Moyer Chemical Co.
- Northern California Fertilizer Co.
- Plant Gro Corporation
- Target Chemical Company
- Van Waters & Rogers
Santa Ana - Moyer Chemical Co.
Santa Barbara
- Agri Turf Supplies. Inc.
Santa Ross
- Purity Chemical Products Co.
South Gate
- Los Angeles Chemical Company

COLORADO Colorado Springs • Gorby, Inc.
Denver • Van Waters & Rogers
Henderson • American Fertilizer Co.
Pueblo • Pueblo Chemical & Supply
Westminister • S.A.J. Turf Products

#### CONNECTICUT

East Haven

East Haven Wholesale Landscape Supply

Emanuel Shemin Horticulturist Hazzardville • Old Fox Chemical, Inc. Wethersfield • Chas. Hart Seed Co.

#### **FLORIDA**

Homestead

• Atlantic Fertilizer & Chemical Jacksonville • Bingham Seed Co.

Jacksonville • Bingnam Seed Co.
Pensacola
• Gulf Shore Turf Supply, Inc.
• Tieco Gulf Coast, Inc.
Princeton • Woodbury Chemical Co.
Sanlord • Southern Chemical Co.
• Sunniland Corporation

Tampa

Southern Mill Creek Products Co., Inc. Winterhaven • Estech, Inc.

GEORGIA Alpharetta • Regal Chemical Co. Alpharetta • College Park

inson Chemical Company

Georgia Golf & Garden Supply
 Fort Valley
 Woolfolk Chemical Work, Inc.
 Madison • Pennington Seed, Inc.

Managed Environments, Inc.
 Swainsboro • GA AG Chemical, Inc.

Betamec-4 (Betasan — registered trademark of Stauffer Chemical Co.)

HAWAII Honolulu • Trade West, Inc. • Van Waters & Rogers

Boise • Van Waters & Rogers Caldwell • Good Day Distributors • Steven Regan Company

ILLINOIS

Barringto • Olsen Distributing Co.
• Rowlands Equipment
Chicago • George A. Davis, Inc.
Danville • Bi-State Turf

 Drake-Scruggs Equipment, Inc. Evanston • Permalawn, Inc.
Genesso • C. D. Ford & Sons
Morton Grove • V-G Supply Company
Normal • Professional Turt Specialty Normal • Professional furl Special Peeria • Behm & Hagemann, Inc. Rockton • Turf Management Supply South Holland • Paarlberg Chemical West Chicage • Turf Products Ltd. Wheeling • Arthur Clesen, Inc.

INDIANA

Indianapolis • Cory Orchard Supply
• Desco Chemical Company
• Indiana Turf
Nappanee • Desco Chemical, Inc.

Cedar Rapids • Hawkeye Seed Co. Davenport • Big Bear Turf Equipment • Tri State Toro Elkader • Meyer Equipment Co. Sioux City

W. R. Anderson Distributing Co.

Waterloo - Foster's, Inc.
Waukee - Baer Ag Supply
W. Burlington
- Brayton Chemical, Inc.
W. Des Moines - Big Bear Turf Co.
- Rest Haven Turf Service

Garden City • Pueblo Chemical Kansas City • Century Laboratories, Inc. • Rhodes Chemical Company Salina • Landsco Corporation

Wichita

Bartels & Shores Chemical Co.
Champion Turf Equipment, Inc.
Robert Wise Company

KENTUCKY

Florence • George W. Hill Company Lexington • Kentucky Garden Co. Louisville • Ky-Inna Turf Supply Co. • Central South Turf Distributors • Tieco

LOUISIANA

Covington
Tammany Turf & Supply. Inc.
New Orleans

thern Specialty Sales Co., Inc. Southern Specialty
 Plain Dealing
 Wyche's Golf Course Specialties

MAINE rtland . Yerxa's, Inc.

MARYLAND

Baltimore • Pro-Lawn Products, Inc. Landover • Loft Seed Company • Vaughan Seed Company Linthicum Heights
 Cornell Chemical & Equipment

MASSACHUSETTS

Arlington • Lofts/New England Boston • Pro-Lawn Products, Inc. Burlington • Tom Irwin, Inc. Natick • Richey & Clapper, Inc. Newton Center • Grounds Equipment Company W. Newton • The Clapper Company W. Warsham • R. F. Morse & Son, Inc.

MICHIGAN
Birmingham • W. F. Miller Company
Detroil • Terminal Sales Corporation •
Turf Supplies. Inc.
Grand Rapids • Mollema & Son, Inc.
• Parmenter & Andre
Hartlard • Desco Chemical Company
Royal Dak • Lawn Equipment Co.
Saginaw • Burdick's Seed House
Utica • Utica Distributors

MINNESOTA

Eagan • Tessman Seed & Chemical
Hopkins
• Potter & Manthei Enterprises
Minneapolis • Howe Chemical Co.
• Minnesota Toro, Inc.
St. Paul • R. L. Gould & Company
• Turf Supply Company
Savage • The Castle Chemical Co.

MISSISSIPPI

South Central Turf Equip. & Supply
• Specialty Oil Company, Inc.
Madison • MFC Services

MISSOURI

Chesterfield

Beckman Turf & Irrigation

Grandview • Landsco Corporation

Robisons Lawn &

Golf Course Supply

Golf Course Supply
Kansas City
Bartels & Shores Chemical Co.
Champion Turf Equipment
Colony Chemicals
Pest Control Supply
Standard Seed Company

Tobin Seed
 Maryland Heights
 Outdoor Equipment Company
Springfield

Springised

Champion Turf Equipment, Inc.

St. Louis • Crown Chemical Co.

A. H. Hummert Seed Company

Link's Nursery, Inc.

MONTANA Billings • Turf Aid Distributing Co

**NEBRASKA** NEBRASKA
Kearney • Growers Ag Service
Special Products Group
Morrill • Jirdon Agri Chemical, Inc.
McCook • Cornbelt Chemicals
Omaha • Big Bear Equipment, Inc.
• Eagle Green Corporation
• Midwest Toro

**NEVADA** 

Las Vegas

Clark County Wholesale Merc. Co. North Las Vegas

Las Vegas Fertilizer Co., Inc.

**NEW HAMPSHIRE** 

**NEW JERSEY** 

Boundbrook • Loft Seed Company • Vaughan Seed Company Cranbury

Cranbury

Chamberlin & Barclay, Inc.
Ciliton • The Terre Company
Dayton • Lebanon Chemical Corp.
Freehold • Green Hills Turf Supply
Hillsdale • L. S. T. Industries
Maplewood • Pierson Mill Company
Mountainside • Andrew Wilson, Inc.
Rahway • Forti-Soil Company
Riverside • Meskers, Inc.
Shrewsbury • Raycroft Distributors
West Caldwell

West Caldwell

• Rockland Chemical Company

Rockland Chemical Company
 Westfield • Storr Tractor Company
 Yardville • Jep Sales Company

**NEW MEXICO** 

Albuquerque
Albuquerque Chemical Co., Inc.
Mesquite • Agricultural Products Co. Roswell Seed Company, Inc.

- nuswell Seed Company, Inc.

NEW YORK
Bergen - Lawn Medic
Brewster - Herbst Bros.
Cambridge - Lofts:/New York
Cohese - S. V. Moffett Co.
Dix Hills - Island Golf & Turf
Farmingdale - Wagner Seed Co, Inc.
Hamburg - Eaton Equipment Co.
Hauppauge - Maxwell Turf. Inc.
Hawtherne - Metro Milorganite
Jamaica - J & L Adikes, Inc.
Latham
- Grassland Irrigation & Equipment

Grassland Irrigation & Equipment Lincolndale

LincoIndale

- Westchester Turf Supply Co.
Syracuse - Eaton Golf & Tractor
- Pro-Lawn Products, Inc.
South Hampton
- James H. Lynch, Inc.
West Henrietta - S. V. Moffett, Inc.

NORTH CAROLINA

Seedmen, inc.
 Fayetteville • Eastern Turf
 Goldsboro • Jeffreys Seed Company.
 Shelby • Porter Brothers, Inc.
 Winston-Salem • Goltra, Inc.

NORTH DAKOTA
Fargo • Minnesota Toro
• Tessman Chemical Northwest

TRIMEC® is a registered trademark of PBI/GORDON Corporation. Product covered by U.S. Patent No. 3,284,186.

Canton - Letherman Seed Company Cleveland - Larry's Garden Center - U. S. Garden Sales, Inc. Cincinnati - Century Toro Dist., Inc. - Forshaw Chemicals

Thornton Environmental ayton • G & S Supply Company

Lakeshore Equipment &

Supply Co. Findlay • Desco Chemical Company

Macedonia

Krigger & Company, Inc.
Mantua 

John R. Skinner Company
Maumee

The Andersons

Piqua • Midwest Burlap & Growers Supply Solon • Sidney L. Dryfoos Company Tiffin • Earl J. Crane. Inc.
Toledo • Century Toro Dist.

**OKLAHOMA** 

OKLAHOMA
McAlester • Tony's Chemical House
Oklahoma City • Paul Blakney Co.
• Estes Chemicals, Inc.
• T-E Agri Supply, Inc.
Tulsa • All Best, Inc.
• Nick Knott Turt Equipment
• South Central Vet Supply
• Thompson-Hayward Chemical Co.
• Wait Mfg. & Sales Company

OREGON

Eugene • Van Waters & Rogers Portland • The Chas. H. Lilly Co • Van Waters & Rogers • Wilbur-Ellis Company

PENNSYLVANIA
Doylestown • Philadelphia Toro
Forty Fort • Penn State Seed Co.
Hanover
• Miller Chemical & Fertilizer C

Harleysville • Geiger Corporation
Horsham • Pocono Turf Supply Co.
Lebanon • Lebanon Chemical Corp.

Malvern
Fisher & Sons Company, Inc.
Manheim • Pro-Lawn Products, Inc.
Philadelphia
Farm & Golf Course
Supply Co. Inc.
Pro-Lawn Products, Inc.
Pro-Lawn Products, Inc.
Pro-Lawn Products, Inc.
Krigger & Company
Pro-Lawn Prod

**RHODE ISLAND** 

 Old Fox Chemical, Inc. SOUTH CAROLINA

. Woolfolk Chemical Works, Inc.

Orangeburg

Ramar Laboratories, Inc.

SOUTH DAKOTA

Dakota Turf

TENNESSEE
Contral South Turf Dist. Knoxville • Central South Turf Dist Memphis • The January Company • Turf Aid, Inc.

Nashville • Central South Turf Dist. Ernest Hardison Seed Co., Tieco, Inc.

TEXAS Amarillo • T-E Agri Supply Amarillo • Dallas

Dallas

Agricultural Chemicals of Dallas

Chemical & Turf Specialty Co.

Nortex Wholesale Nursery

Van Waters & Rogers

Watson's Distributing Company
El Paso El Paso Turf Supply
Houston • Van Waters & Rogers

Watson's Distributing Company
Katy • Sigma Chemicals
San Antonio

Van Waters & Rogers

Van Waters & Rogers

 Van Waters & Rogers
 Waco • Estes Chemicals, Inc. Wichita Falls . Estes Chemicals, Inc.

UTAH Salt Lake City • Steve Regan Co. • Van Waters & Rogers

VIRGINIA Chesapeake • Turf & Garden Division Harrisonburg • Wetsel Seed Co. Richmond • Forshaw Chemicals • Wilson Feed Company, Inc.

Roanoke Agri Turf Products Company, Inc.
 Miller Chemical & Fertilizer Co.

WASHINGTON

Pasco • Wilbur-Ellis Company Renton • Pacific Agro Company Seattle • The Chas. H. Lilly Co. • Van Waters & Rogers • Wilbur-Ellis Company

Spokane

Van Waters & Rogers

Company

WASHINGTON, D.C.

**WEST VIRGINIA** 

WISCONSIN Elm Grove
• Reinder Bros. Turf Equipment
Janesville • Wisconsin Turf
Milwaukee • Loft Kellogg Seed Co.

Sun Prairie
Turf Management Supply

## \$10 COUPON

\_\_\_\_\_\_

Send to PBI/GORDON Corporation Attached is an invoice from a Gordon Distributor listed on this page, proving that I

have purchased 5 gallons of Betamec-4 and 5 gallons of Trimec since January 1, 1982. Please send me a check for \$10.00. (Offer expires July 1, 1982. Limit one per customer.)



Address State Zip City



------



1217 WEST 12TH STREET P.O. BOX 4090 KANSAS CITY, MO 64101 816/421-4070

pbi/sordon corporation

## GOVERNMENT

## UPDATE

BY WILLIAM HOFFMAN

#### Marijuana—An important agricultural crop?

It doesn't matter whether you believe the National Organization for the Reform of Marijuana Laws figure of an \$8.2 billion crop of homegrown pot in 1981 or the United States Drug Enforcement Administration's lesser figure, the value of marijuana is nearing the value of the major crops of soybeans, corn and wheat. Cannabis indica, a Far East variety has replaced the native cannabis sativa, because it produces as much as two pounds of dried product per plant and one richer in tetrahydrocannabinol, the intoxicating chemical. Wild animals and poachers appear to be greater threats to the plantings than law enforcement agencies.

#### Import of rooted hyacinth bulbs now allowed

In 1980, during the revision of the import regulations for nursery stock, plants, roots, bulbs, seeds and other plant products, the importation of ferns, African violets, gloxinia, begonia and peperomia in soil-free growing media was allowed. Stringent conditions were required in order to prevent the entry of injurious plant diseases, insects or other pests into the United States. The Animal and Plant Health Inspection Service, USDA, is now adding hyacinths to the list. The soil-less media would be unused peat, sphagnum moss, vermiculite, or synthetic plastic materials. They estimate that not more than 20,000 rooted hyacinth bulbs would enter the first year—a small amount when compared with the 25 million hyacinth bulbs imported each year.

#### Fertilizer and limestone use up slightly

Fertilizer use in the United States for the year ending June 30, 1981 totaled 51.2 million tons, an increase of one percent from the tonnage consumed in the previous year.

Dry, bagged fertilizer continued to decline while use of dry bulk mixtures and fluid fertilizer increased. The U.S. Department of Agriculture reported further that total 1981-82 use will be over 23 million nutrient tons-close to last year's level.

Overall fertilizer prices could average six to seven percent higher in the spring of 1982. Above normal inventories of phosphate and potash, plus a possibly stable demand, will hold back greater price increases.

The National Limestone Institute reported that limestone use for the year 1980 was about 34.4 million pounds, up about 10% from 1979 but still only about a third of the needs of our soils.

#### Pesticide applicator training in jeopardy

The House of Representative's Agriculture Subcommittee keeps an eye on the EPA administration of the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) and has reported out an amendment which is in direct opposition to White House plans. The amendment calls for the appropriation of \$4 million each fiscal year to the States for applicator training and pesticide certification and licensing.

While this Subcommittee has no power to appropriate money for pesticide regulatory programs of EPA, there is the possibility of such a figure showing up in the Congressional EPA funding bill.

These programs are completely eliminated in the President's budget with the expectation that the State's will do the funding. A victory for the President could cause many of the States to reduce pesticide regulatory activities drastically. They feel that the certification and training of applicators and the classification of restricted use pesticides were enacted into law at the Federal level and should be funded at that level.

With no certified applicators, there can be no restricted use pesticides, seriously affecting the efforts of EPA to make available the chemicals needed for safe pest control.

Green Section fielded 14 speakers to expound on irrigation, turf, design and playing conditions. During the conference Charles Wilson, retired director of the Milwaukee Sewerage Commission and current research director of the O.J. Noer Research Foundation, was awarded the 1982 USGA Green Section Award. The award was given in recognition of Wilson's distinguished service to golf through work with turfgrass.

Al Radko was awarded the first Weeds Trees & Turf "Man of the Year Award" during the show. Weeds Trees & Turf sought to recognize Radko for his 35 years of tireless achievements in golf course management. A member of the Green Section since 1953, Radko served as national director for the last five years.

Exhibitors had their own awards to present at the show. Smithco presented its "Smithco White Hat Award" to Illinois Lawn Equipment Co. as the Western Distributor of 1981. Boyd Distributing copped the "Outstanding Sales Performance Award" from Turfco Mfg. Co./National Mower Co.

The show came to a close with the election of GCSAA officers for 1982. James Wyllie, Bayview Golf Club, Brampton, Ont., was elected president. Other officers elected were: Robert Osterman, Connecticut Golf Club, Easton, CT, vice president; Paul Boizelle, The Onwentsia Club, Lake Forest, IL, executive committee; and John Hayden, San Jose Country Club, Jacksonville, FL, executive committee.



Showgoers register for Long Green Sweepstakes.

## Power equipment sales to increase

Outdoor power equipment sales should increase during 1982, despite the present economic slowdown, according to the Homelite Division of Textron Inc., Charlotte, NC.

"We're starting to see a recovery in

#### **NEWS**

the chain saw business and are projecting continued growth next year for gas-powered string trimmers," said George Algire, Homelite executive director of marketing. "We also see the trend continuing toward bigger and more expensive chain saw models that cut more wood and for longer periods of time."

Other Algire predictions include: gas-powered string trimmer sales to increase to 1.2 million from 1 million; the market for blower-sprayer units to double from 100,000 in four years; and a two to six percent increase in grass-cutting equipment sales.

#### CHEMICAL

#### Avon Products buys Mallinckrodt Inc.

Avon Products, the cosmetics firm, has reached an agreement to acquire Mallinckrodt Inc., St. Louis, MO. The purchase agreement amounts to \$720 million (\$50 per share of Mallinckrodt stock).

Mallinckrodt, a leading manufacturer of agricultural chemicals and other products, will be an independent subsidiary of Avon. No management changes have been planned and the company will continue to be based in its St. Louis headquarters.

In other news at Mallinckrodt, Mack Nichols has been elected corporate vice president. Nichols had been vice president and general manager of the company's Specialty Chemical division.

#### PEST CONTROL

#### IPM making progress using natural enemies

Integrated pest management (IPM) is making good progress in America, according to Lloyd Knutson, U.S. Department of Agriculture insect scientist.

Speaking at the First Japan-USA Symposium on IPM, Knutson said that IPM progress is due to advances by scientists who explore the world and never roam far from a microscope. He spoke of entomologists who learn to control pests of the farm and forests by using the pests' natural enemies—their parasites, predators and diseases.

Natural enemies and other biological control techniques are the "foundation" of IPM, said Knutson. Scientists developed the IPM concept in recent years to give people alternatives to relying solely on pest control by chemical pesticides. Knutson is chairman of

Continues on page 89

## Turf Maintenance?



## Let your grasses do the work

Turf problems can be avoided. Improved varieties are your lowest cost management tool.

If the turf area you manage is over 15 years old, chances are it is a mixture of poa annua, wild bentgrass and other questionable turf species.

Make your job easier and cut maintenance costs. Renovate and plant a mixture of improved turfgrass varieties like Touchdown and America Kentucky bluegrass and Fiesta Perennial ryegrass. All these have the ability to establish quickly, and produce a dense weed resisting turf. They will stand up to wear, turf diseases, and seasonal stress. Professional testing proves it

**University of Illinois** - Touchdown was <u>outstanding</u> in its ability to out compete Poa annua.

Ohio State University - America <u>ranked first</u> out of 30 commercial bluegrass varieties in incidence of Sclerotinia Dollar Spot. (At low, medium, & high fertilization levels.)

**Ohio State University** - Fiesta <u>ranked number 1</u> out of 22 commercially available perennial ryegrasses in overall turf quality for entire season.

Touchdown KENTUCKY BLUEGRASS





Pickseed Also Produces





P.O. Box 888, Tangent, OR 97389 • (503) 926-8886 Distributed in Canada by Otto Pick and Sons Seeds Ltd Box 126, Richmond Hill, Ontario • (416) 884-1147

# OH JACKLIN, VERMEER FOUND STRENGTH LANDSCAPING

To help us celebrate our 20th anniversary, we asked advertisers to share their last 20 years with us. Jacklin and Vermeer jumped at the opportunity. Although both companies were launched prior to 1962, they derived phenomenal growth as the landscape market boomed in the last 20 years. In future issues we will present the stories of other landscape market manufacturers to highlight the last 20 years.



Jacklin Seed Co. is a multifaceted company serving both the professsional and homeowner markets. It was founded in 1935 by Ben Jacklin and his three sons Lyle, Owen and Arden in Dishman, WA. Arden Jacklin, after leaving the USDA Soil Conservation Service, convinced his father and brothers to risk part of their vegetable farming business to venture into the turf

seed industry.

Initially, Jacklin produced some field grasses and creeping red fescue. Later they received some of the first foundation seed of Merion and put full effort into production. Because of the ever-increasing demand for new and better grasses, Jacklin is committed to testing and developing improved varieties. The company makes its own new variety selections, in addition to testing new varietal developments by universities and industry. In Jacklin's trial grounds, more than 200 Kentucky bluegrass varieties plus fescues and other grasses are in test. Rated according to turf quality, color, density, texture, disease resistance, ability to withstand hard usage, and seed production

Continues on page 22