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I want detailed information on:

- My nearest suppliers for Stauffer products
- Aspon® 6-E and 5-G insecticide for chinch bugs
- Betasan® 4-E and 12.5-G herbicide for greens and grounds
- Eptam® 5-G herbicide for sand traps
- Captan 50-WP fungicide for turf, trees
- Dyfonate® 5-G soil insecticide for turf
- Imidan® 50-WP insecticide for trees, shrubs
- Vapam® liquid soil fumigant

My Name _____

Firm Name _____

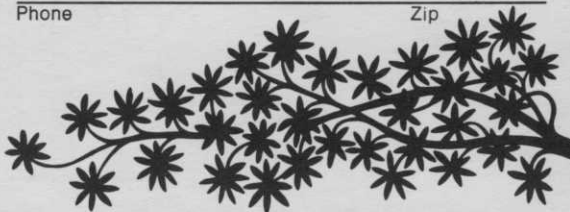
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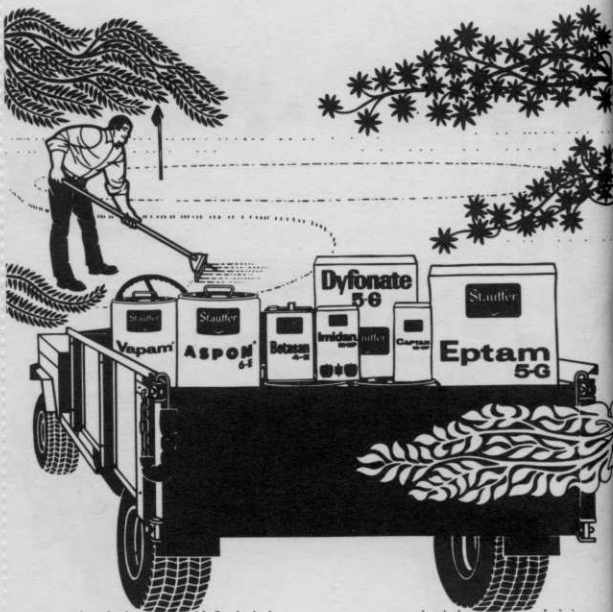
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BUSINESS REPLY MAIL

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Postage will be paid by:

STAUFFER CHEMICAL COMPANY
Agricultural Chemical Division
Dept. H.D., Westport, CT 06880.

FIRST CLASS

Permit No. 21
Westport, CT 06880

Here's help to maintain the beauty of your grounds!

Yes, reliable help. Economical help. Help against scores of different weeds, insects, and diseases that constantly threaten your greens, fairways, trees, shrubs and flowers. Help that comes from your supplier of all these Stauffer products.

Aspon® insecticide, the quick, long-lasting control for chinch bugs, devastating destroyers of turf. Usually just one application a season in the north, two in the south.

Betasan® herbicide, the sure preventive for crabgrass and goosegrass. Excellent for your campaign against poa annua in your greens. Not harmful to any of the permanent turf grasses.

Eptam® herbicide is the sure control for annual weeds in sand traps. Also controls persistent perennial weeds like nutgrass and quackgrass. Excellent for flower beds and shrubs, too.

Imidan® insecticide protects trees from destructive gypsy moth, elm spanworm, spring cankerworm and birch leaf miner. (Northeast only.)

Vapam® liquid soil fumigant cleans the soil of pests so you can replant grass, trees, and shrubs. Destroys weeds and their seeds, insects, nematodes and many fungous organisms. And you can replant without a long waiting period.

Dyfonate® soil insecticide, one of the newest effective controls for chinch bugs used by commercial operators in the southeast.

Captan fungicide is the reliable control at very low cost for brown patch, leaf spot, melting out and several other turf diseases.

Try these Stauffer products, liquid, granular and wettable powder forms, to protect beautiful grounds. For full information . . . just fill out and mail the post-paid card insert above. Stauffer Chemical Company, Agricultural Chemical Division, Dept. H.D., Westport, CT 06880.



Turf and Grounds Products from



INDUSTRY
INNOVATION

NETTING FOR SOD

REALITY FROM IMAGINATION



Harvesting sod in half the usual growing time is possible with the use of Vexar plastic netting. The netting is laid when the field is seeded, and covered with one-quarter inch of soil.

A major problem in commercial sod production is the length of time the grass has to grow before it can survive handling. Often, turfgrasses are attractive and marketable in four to six months but cannot be lifted because of sod weakness. Sod producers, then must bear the cost of maintaining their fields until the necessary sod strength is achieved.

Cal-Turf, Inc., California's largest commercial sod producer, has found a way to combat the problem. By using Vexar plastic netting to anchor turf roots, the firm can harvest its sod as soon as it is marketable.

Cal-Turf, a division of American Garden Products, Inc., cultivates more than 1,000 acres on its four farms.

"Traditionally we have harvested three crops from each field every two years for an average of eight months per crop," says Steve Cockerham, production manager of Cal-Turf. "But now with the Vexar giving us sufficient sod strength to lift so much sooner, we hope eventually to cut our overall turnaround time in half. If we can get the turfgrass uniformity we seek in four months, the Vexar allows us to harvest.

"The net technique is especially good for bluegrass," he continues, who did Cal-Turf's research with the plastic netting. The company's expertise with the turf net has been gathered during the planting of more than 250 acres with the new method.

"To plant a field using Vexar plastic netting, we establish a true surface with the usual preparations, then do some extra land planning. We plant with our own machine,

applying the net, seeds, and cover at the same time. The cutting depth of the netted sod is the same depth at which we cut our other sod," he says.

"We seeded our first field of Vexar (37 acres) with Peninsula Blend, our new blend of Pennfine perennial ryegrass and Fylking Kentucky bluegrass. The sod had more than enough lift strength at the end of four months."

The sod market continues to grow steadily, despite ups and downs in new housing starts. With less land available in populous areas, more home construction is being done on sloping, hilly sites where sodding is
(continued on page 56)

Steve Cockerham, general manager, Cal-Turf, shows how the netting helps give the sod sufficient strength to be lifted in half the usual time. Cal-Turf will have 450 acres of netted turf on its farms this year.





"THE RIGHT APPROACH™ TO GOOD TURF"

CHIPCO MICROGREEN LIQUID
CHIPCO MICROGREEN LIQUID

A blend of metal organo complexes of iron, zinc, manganese, and copper for the correction of turf nutritional deficiencies

GUARANTEED ANALYSIS*		
Sulfur (S)		4.0%
Copper (Cu)		0.5%
Iron (Fe)		4.0%
Manganese (Mn)		0.5%
Zinc (Zn)		1.0%

NET CONTENTS
5 GALLONS
(50 POUNDS)

CAUTION: Keep Out of Reach of Children

Chipco Microgreen Liquid is a blend of metallic micronutrients. It will correct yellowing of turf and ornamentals caused by soil deficiencies. Treated turf and ornamentals develop healthier root systems. So they're less susceptible to disease and moisture stress. Chipco Microgreen Liquid: easy to use, effective and extremely economical.

Once you use a Chipco something, you'll use Chipco everything.

For More Details Circle (157) on Reply Card



NETTING FOR SOD

(from page 54)

the most practical way to assure soil stabilization.

"Long lead times are the exception in our business," says Steve. "We deliver palletized sod to job sites within 24 hours of order placement, and we spot the sod where the contractors want it. Customer acceptance of the netted sod has been excellent."

The ability to double sod production without adding land is a long-range economy appreciated by Cal-Turf. "We're working Vexar into our fields as crops are harvested at our California farms in Camarillo, San Juan Bautista, and El Toro," he says. "Of course, our overall sales will dictate how quickly we incorporate the net method in all our fields, but now we know we can double our business before we will need more land."

ASPA Summer Meeting Slated For Maryland

The Sheraton Inn — Northeast in Washington, D.C. (New Carrollton,

Maryland) will be the site of the ASPA annual convention and field days in 1974.

The Maryland Turf Grass Association is serving as the host organization and a program is being put together for both business and social pleasure.

For the first time, an inside display of equipment products and supplies will be held the night prior to the meeting; the area will be open as well on opening morning.

Field trips will be made by chartered buses to various sites in the area where demonstrations of the newest in sod production equipment will take place. "This is a real opportunity for personal inspection of various units that are available and an opportunity to update equipment and to see things in action," says Jack Kidwell, ASPA president.

Wage-Hour Litigation Draws ASPA Legal Help

Attorney Bill Harding, counsel for the American Sod Producers Association, has been directed by the association to file a special brief in-

behalf of a wage and hour suit involving a ASPA member.

Because of the nature of the case, the board has ruled that a decision by a court could have direct influence and bearing on every U.S. sod producer. Board members believe that the decision could have impact on the future of the sod industry and thus have solicited the services of ASPA attorney, Bill Harding.

The intervention will consist only of a brief filed by Harding. Financing is to be supported by sod producer members who are willing to make contributions outside the ASPA budget. Members may submit a voluntary contribution by check made out to ASPA, c/o Association Building, 9th and Minnesota, Hastings, Nebraska 68901, and noted thereon "legal brief."

Winter Sod Conference Attracts 160 Producers

An action-packed meeting about the business end of sod production was the drawing card for about 160 members of the American Sod Producers Association in early February.

Meeting in New Orleans in the heart of Bourbon Street's heavily sodded nightclub and fun district, members concentrated on the mid-winter conference theme: "How to make and keep a buck!" The two day cram session was essentially divided into two parts. Bill Harding, ASPA legal counsel, headed part one: dealing with government and how to survive.

Harding's legal expertise was manifested in his ability to explain the details of Federal laws affecting the sod producer. He has the subtle persuasiveness of a trial lawyer and the pounding authority of a distinguished college professor. His best quality; however, is in communicating the little known to the uninformed. He talks the sod producer's language in their terms.

Thus, when it came to the nitty-gritty of OSHA, unions, energy regulations, wage and hour regulations, Phase IV, and Interstate Commerce Commission matters, Harding competed most favorably with the attractions on Bourbon Street. The February meeting covered in more detail many of the aspects discussed by Harding during the ASPA summer meeting. Only this time, it was more real. Some sod producers

(continued on page 58)

IT'S A FACT...

OVER A MILLION EARTHWORMS CAN INHABIT AN ACRE OF SOIL... DARWIN ESTIMATED THAT IN ONE ACRE, UP TO 10 TONS OF SOIL PASSES THROUGH THE BODIES OF EARTHWORMS EACH YEAR.



MOST CULTIVATED LAND in humid areas of the U.S. WILL ERODE AT AN AVERAGE OF 1 INCH OR MORE PER CENTURY.

- **TERRA TACK HELPS PREVENT EROSION** WHEN USED AS AN OVERSPRAY BY HOLDING STRAW OR HAY IN PLACE.
- **TERRA TACK, IN A SLURRY OF SEED, FERTILIZER, AND FIBER, FORMS AN ADHESIVE** TO HELP PREVENT EROSION.
- **TERRA TACK'S COST? ... AMAZINGLY LOW!**

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...AND THAT'S A FACT!

Terra Tack as a spray helps control soil erosion.



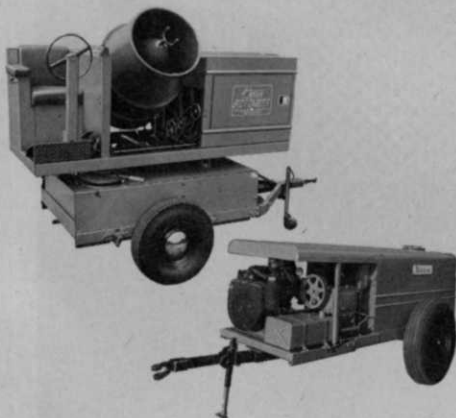
WITH TERRA TACK



WITHOUT TERRA TACK



Seasonal leaf drop is one thing...



...but loss of leaves through bark and leaf infestation is quite another. To protect your shade trees, a well-planned spray program is well worth the time it requires — and BEAN® spraying equipment is the best way to go. FMC's Rotomist® controlled-air sprayers for example, are engineered to give you maximum penetration and assure you the best possible coverage and protection. FMC's Royal high pressure sprayers also afford you the versatility and performance you need...are available skid-

mounted or in trailer models, with hose and gun for effective shade tree applications. You won't find any better tree protection than with BEAN sprayers. Contact your nearest FMC representative for a demonstration today, or write:

FMC Corporation
Agricultural Machinery Division
Jonesboro, Arkansas 72401

FMC Environmental
Equipment

For More Details Circle (111) on Reply Card

WINTER SOD CONFERENCE

(from page 56)

have been stung by Federal regulations, particularly wage and hour laws. The Nebraska attorney quickly sifted out the thorn and dove for the roots of the problem.

It might be summarized that Harding awakened a need among sod producers to have in their possession up-to-the-minute information regarding Federal laws that affect their business.

A second speaker during the first session was Stu DeBruicker of the Harvard Business School. He led the group through an exercise in marketing and planning, using case history and analytical approach.

Section two was show-and-tell. Following the well-known psychology that sod producers want to know more about what other sod producers are doing, this session passed the ball back to the membership. Then the fun began.

Don White, Iowa Nursery Sod Corp., Des Moines, discussed how he sells firewood in the winter as an extra source of income. Bill Latta, Princeton Turf of Kansas City, Mo., outlined his maintenance procedures for equipment repairs during the off

season. John Dol, Cookstown, Ontario, Canada, and Dale Habenicht, H & E Sod Nursery Inc., Tinley Park, Ill. reported on trucking operations during the winter months.

Ted DeLalio, DeLalio Sod Farms, Inc., Dix Hills, N.Y., Norm LeGrande, Lincoln, Nebr. and Tom Thornton, Thorntons Turf Nursery, Elgin, Ill. all spoke on their experience with routing orders.

One interesting discussion given by Jim Reynolds, Reynolds Turf Farms, Inc., Brighton, Colo. involved pasturing sheep on sod. H. B. Michelson, Michelson Ranch, Elk Grove, Calif. reported on his cattle feeding operation to utilize turf clippings.

Allen Freeborg, Henderson, Colo. presented his views on maintaining customer relations. He spoke on credit and collections in the sod business. Along the same line, Mel Smilsky, Cookstown, Ontario, Canada, reported on how to obtain replacements. Guarantees of sod installation, quality, etc. were discussed by George Schaaf, Patterson, Calif. Problems in relations with customers were brought out by Howard Fairty, Milliken, Canada.

Other sod producers recalled their

experiences under the general heading of personnel management. Bill Johnson, Halmich Sod Nurseries, Inc., East Lansing, Mich., talked about acquiring and keeping field help. The owner-manager concept was explored by John Hope, Manderley Turf Farms, Ltd., North Gower, Ontario, Canada. Emory Patton, Turf Center Inc., Silver Springs, Md. pointed out ways to increase employee productivity. Cecil Collings, Green Valley Turf Farms, Inc., presented his views and experiences with delegating work.

"Everyone attending had an opportunity to discuss his problems and hear about other experiences," commented Jack Kidwell, ASPA president. "We had a standing room only sell out at the banquet which featured a presentation of Mardi Gras Preview."

Sod producers from other countries were an integral part of this year's meeting. Ragnar Browall, Falkoping, Sweden, flew in from his northern home to learn more about sod production U.S. style.

Meeting site of the summer meeting will be the Sheratan Inn—Northeast in Washington D. C. (New Carrollton, Md.). Dates are July 16-19. □

Start an underground movement to get the grass greener on your side of the fence.

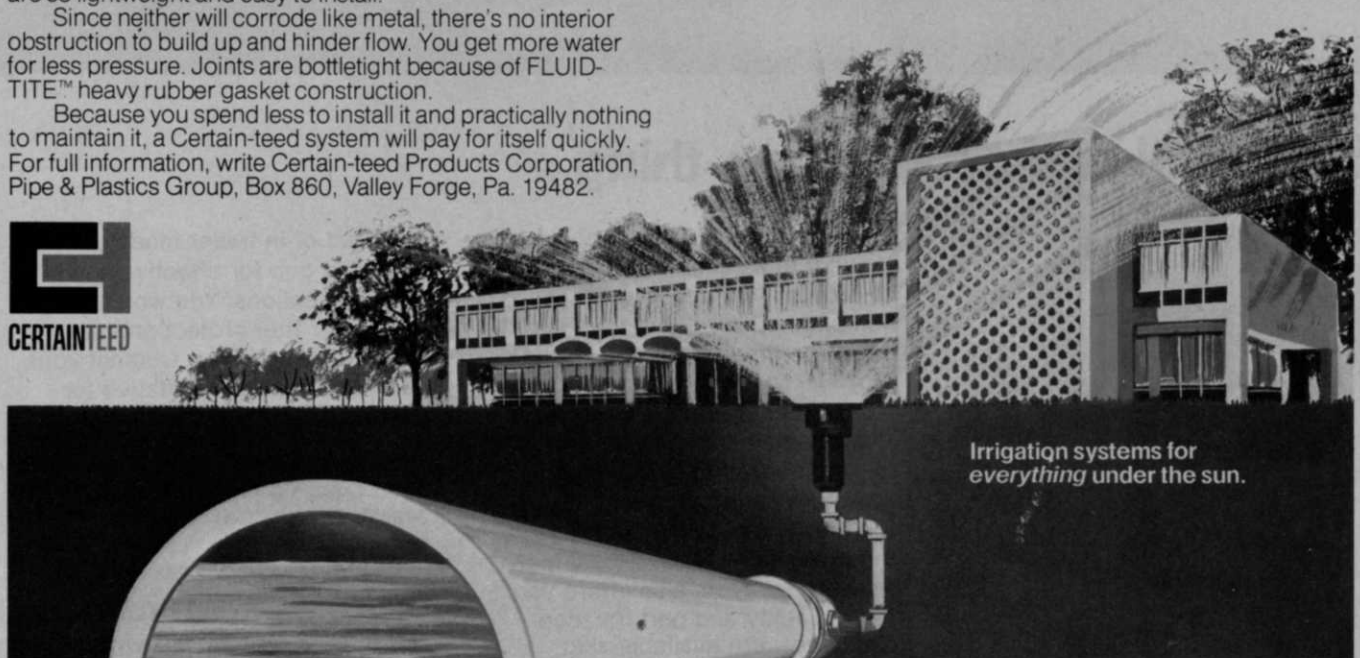
A Certain-teed pipe irrigation system goes underground so quickly, your turf is back in good order in just a few days. That's because Certain-teed PVC or asbestos-cement pipes are so lightweight and easy to install.

Since neither will corrode like metal, there's no interior obstruction to build up and hinder flow. You get more water for less pressure. Joints are bottle-tight because of FLUID-TITE™ heavy rubber gasket construction.

Because you spend less to install it and practically nothing to maintain it, a Certain-teed system will pay for itself quickly. For full information, write Certain-teed Products Corporation, Pipe & Plastics Group, Box 860, Valley Forge, Pa. 19482.



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everything under the sun.

Flymo® CUTS BEYOND THE EDGE WITHOUT WHEELS.

Flymo® is a revolutionary concept in rotary lawn care machines. Flymo floats along on its own cushion of air at exactly the height you want for healthy turf. The same air cushion that supports Flymo also pulls the grass up into the tempered steel blade for even cutting.

Flymo has no wheels to get bogged down in sand or wet ground. Flymo cuts grass wherever it grows — edges of sand traps, sides of tees, under benches. And goes places wheeled machines can't, like the edges of water hazards.

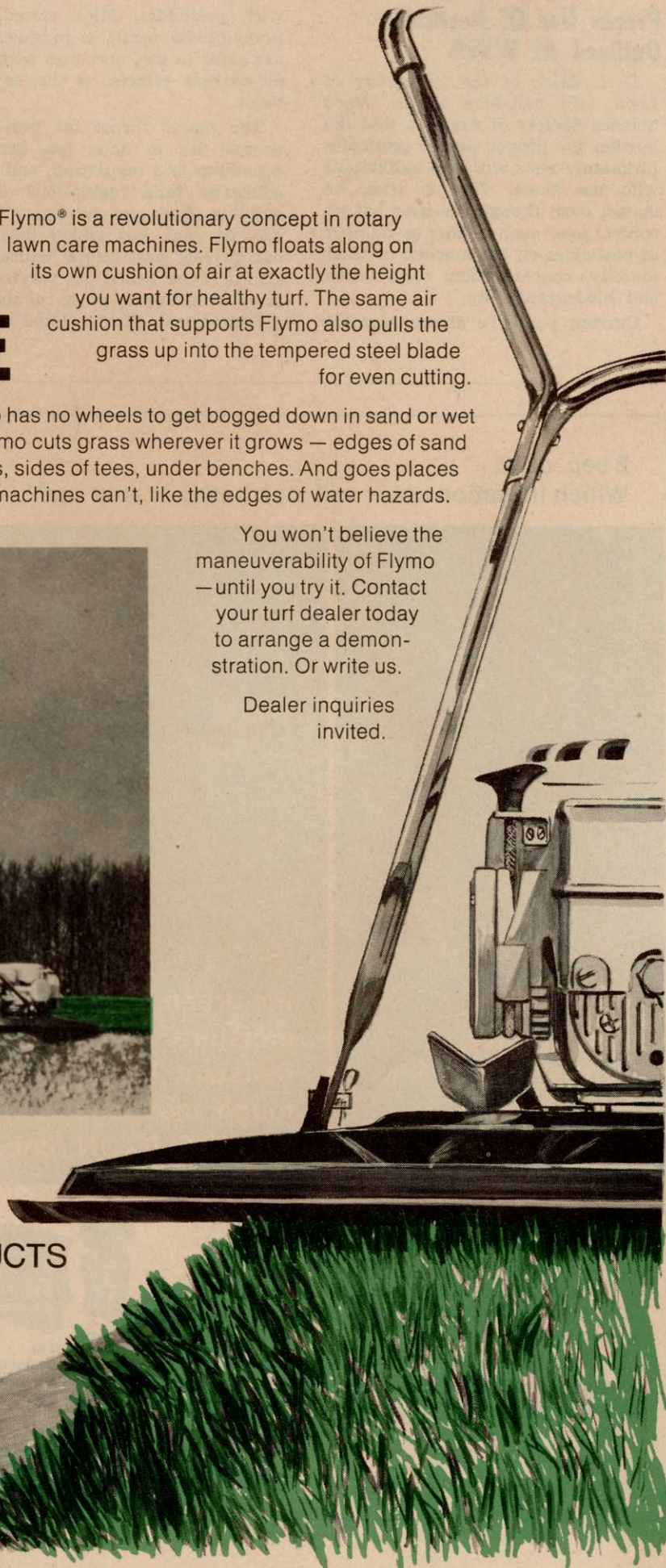
You won't believe the maneuverability of Flymo — until you try it. Contact your turf dealer today to arrange a demonstration. Or write us.

Dealer inquiries invited.



FLYMO PRODUCTS
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2310 Industrial Parkway
Elkhart, Indiana 46514

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Proper Use Of Pesticides Outlined At WSSA

D. L. Mick of the University of Iowa, told members of the Weed Science Society of America that the burden for proper use of pesticides ultimately rests with the individuals who use them. This is true, he stated, even though the user has no control over such factors as number of pesticides on the market, or their toxicity, concentration, formulation and biodegradability.

Current public disenchantment

with pesticides, Mick stated, will undoubtedly result in products that are safer to use, and ones with fewer adverse effects on the environment.

The major thrust for promoting proper use to date, has been by education and regulation, and when education fails, regulations are inevitable. Both are necessary methods, he said, but added that both our private and public educational efforts have failed to varying degrees, resulting in more regulations.

Educational efforts aimed at pro-

moting proper pesticide use must be an integral part of any situation involving these chemicals, Mick stated. To do otherwise, will undoubtedly result in further restrictions of those products which have been so beneficial for modern agriculture.

Phase IV Price Controls Rules On Sod Production

As a result of efforts by ASPA, the Cost of Living Council has issued a statement as regards Phase IV price controls and their relationship to sod production. The Council has stated that the production of grass involves a raw agricultural product and is therefore exempt from Phase IV price controls.

However, they have likewise ruled that sod installation is determined by the Cost of Living Council and must be considered "landscaping service" and therefore within the definition of construction operations.

The small business exemption of 60 employees or less does not apply to sod installation unless the annual sales and revenue from sod installation are less than \$1,000,000.

It is likely that most ASPA members would fall under the \$1,000,000 maximum income from sod installation, says Bill Harding, ASPA counsel. Exemption under both types of operations (production and installation) could be claimed as far as price controls are concerned.

Golf Course Builders Elect New Officers

Frank A. Underwood has become the fifth president of the Golf Course Builders of America.

Underwood heads the Underwood Golf Course Construction Co., of Bowie, Texas, and has been building golf courses for 14 years. He served as GCBA's president-elect in 1973, and assumed the top elected spot in the golf trade group at its third annual dinner in Anaheim, Calif.

Other new GCBA officers are: President-Elect: Lyle Thompson of Culpeper, Va., a vice president of Moore Golf Inc.; Vice President: J. R. Costin of Charlotte, N.C., president of E. H. Coffey & Associates; Secretary: Eugene M. Witter of Findlay, Ohio, a sales executive of Hancor Inc.; and Treasurer: Eugene M. Brown of Greenville, N.C., vice president of Hendrix & Dail.

2 sec. quiz:

Which irrigation cover will look better in your turf?



❑ the black, rusty, heavy, brittle, expensive cast iron one.



❑ the green, moisture resistant, light, tough, inexpensive SUPERFLEXON® one.

Quiz fast and easy? As easy as installing thermoplastic boxes with our exclusive "ever-green" covers.

That's why thousands are in use today coast-to-coast. Bought for their benefits. Blending beautifully with their turf.

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Choose pits (round) or boxes (rectangular). Both available with cosmetic "ever-green" covers.

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