cally advanced to the presidency. He is supervisor of parks for Tenafly, New Jersey.

The new president-elect is Earl Wilson, vice president of Thornton-Wilson, Inc., Maineville, Ohio. Elected vice president was Fred Rigger, who is assistant manager in charge of grounds, Padonia Swim Club, Cockeysville, Maryland. Robert Fisher was re-elected treasurer.

The society will present its first area management workshop, "Business Management Techniques for Professional Grounds Managers," at the Holiday Inn in Jessup, Maryland, on February 18 and 19, from 9:00 a.m. to 4:00 p.m. For information and registration brochure, contact Allan Shulder, Executive Director, Professional Grounds Management Society, 7 Church Lane, Pikesville, MD 21208; telephone 301-653-2742.

TURF DISEASE
Bitter cold, drought may alter incidence

Exceptional cold winter temperatures and lack of rainfall in the Northeast may alter turf disease incidence, according to Cornell University turf pathologist Dr. Richard Smiley.

Lack of heavy snow cover and frigid soil temperatures should reduce the incidence of snow molds, says Smiley. However, lack of rainfall and snowfall over the past two years in the Northeast combined with irrigation may increase the incidence of Fusarium Blight, red thread, and dollarspot. Droughty soil combined with surface humidity from irrigation may make summer diseases more prevalent in the region.

Smiley anticipates an increase in summer turf diseases into the mid 80's due to continued drought conditions in the Northeast.

CENSUS
Farmland value doubles, irrigation more common

Between 1974 and 1978, the average value of agricultural land and buildings per acre increased from $336 to $627, according to the latest data from the Commerce Department's Bureau of the Census. The dependence on irrigation for agriculture increased in the same period to five percent of U.S. farmland.

Although the number of farms continued to decrease, the drop was less than in previous periods. The nation had one billion acres of productive farmland in 1978 in 2,480,000 farms, down 150,000 farms from 1974. There was an increase in the number of farms with less than 50 acres or more than 500 acres.

Farmers are turning to more efficient use of land and more control of available cropland. Acreage for pasture declined and irrigated acreage increased.

Orchard acreage increased ten percent and the number of orchards increased by a third. Possibly many of these new businesses were less than 50 acres.

Farmers chiseled away at wasteland by increased use of irrigation and decreased use of land for pasture. The net result was an increase in total cropland in 1978.

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Get the Job Done Quick and Easy!

There's a proven-dependable Ground Hog . . . with interchangeable auger sizes, blades and pilots . . . to suit your every need. Light in weight, easy to operate and requiring little maintenance, Ground Hog Earth Drills do the tough jobs quickly . . . with minimum, if any, downtime. Try one and see!

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This model's powerful engine increases auger RPM and its heavy duty gear box assures continuous trouble-free operation. Only 75 pounds complete with 8" auger.

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Unique right angle drive line prevents torque kickback. Drills close to walls and fences. 5 HP engine, manual clutch, high way rated 16" pneumatic tires for towing.

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What you call it can't make it go away …but Balan® can.

Depending on where you are, Goosegrass gets called a lot of things. But no matter where you are, nobody calls Goosegrass an early riser. It doesn't get up and get growing with regular crabgrass in early spring. Goosegrass waits to make its appearance until six to eight weeks after crabgrass germinates. And by the time you see it, there's not much you can do about it. But an application of Balan just before it begins to germinate is all it takes to put an end to your Goosegrass problems. Ask your Elanco distributor salesman to help you work out a full-course Balan program.

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MARKETS

Fertilizer producers up output by 5 percent

U.S. fertilizer producers increased production five percent above the previous year's five-month period of July-November, and almost equalled domestic disappearance of an unprecedented record fall in 1979, according to a report of The Fertilizer Institute.

"Nitrogen products remained the strong leaders in domestic disappearance for the five-month period," said Edwin M. Wheller, president of The Fertilizer Institute. "This product group showed a gain of five percent over July-November 1979, whereas all other product groups decreased in market movement."

Wheller said that continued strong foreign demand for U.S.-produced fertilizers resulted in an increase of 30 percent for exports in the July-November period over 1979. This increase in exports applies broadly to each of the nitrogen, phosphate, and potash product groups. Nitrogen solution exports were more than twice last year's levels. Urea exports increased 58 percent, diammonium phosphate, 38 percent, and potassium muriate, 22 percent over year-ago levels for the five-month period.

NEW COMPANY

Irrigation consultant starts California firm

Harold W. Wake, a pioneer in the design and manufacture of low volume irrigation systems, has formed a manufacturing and marketing firm, Misti Maid, Inc., with a new line of home and garden irrigation systems.

Wake says the Misti Maid systems contain unique, advanced features, such as easy installation, great water and energy saving ability, adaptability to all terrain and uses, and the capability to fog, drip, mist, or sprinkle.

Art McNab Agency, Mountain View, CA, will be the manufacturer's representative for the firm in the West.

COURTS

Retailers unpaid for 2,4,5-T/Silvex products

Many retailers have not been paid for 2,4,5-T/Silvex products they returned to suppliers after the Enviromental Protection Agency's cancellation order in March, 1980.

Dow Chemical is still appealing the cancellation, but most formulators have agreed in the meantime to take back all supplies subject to EPA reimbursement. Retailers are entitled to cost plus a 15 percent handling charge.

While the EPA has admitted the validity and amounts of major claims, it has refused to pay for lack of funds. Lebanon Chemical sued the government in U.S. Court of Claims last June, and others are following. Favorable court judgments are expected within the next few months, and payment will then follow from court appropriations.

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For the name of your Satoh Mitsubishi dealer see your local Yellow Pages or write Satoh Mitsubishi, Box 5020, New York, NY 10150.

MITSUBISHI
WE BUILD A BETTER TRACTOR
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, 757 Third Ave., New York, NY 10017.


Maryland Nurserymen's Day, Maryland Flower Growers’ Day, and Landscape Contractors Day, Center of Adult Education, University of Maryland, College Park, Feb. 17, 18, and 19. Contact Conrad B. Link, Professor, Dept. of Horticulture, University of Maryland, College of Agriculture, College Park, MD 20742, 301/454-3606.

WSSA annual meeting, Dunes Hotel and Country Club, Las Vegas, NV, Feb. 17-19. Contact Weed Science Society of America, 309 West Clark St., Champaign, IL 61820.

Penn-Del ISA chapter meeting, Holiday Inn, King-of-Prussia, PA, Feb. 26-27. Contact Ervin C. Bundy, ISA Executive Director, 5 Lincoln Square, P.O. Box 71, Urbana, IL 61801, 217/320-2032.

American Society of Agricultural Engineers symposium on "Engineering Systems for Forest Regeneration," North Carolina State University, Raleigh, NC, Mar. 3-5. Contact ASAE Headquarters, Dept. SESFOR, Box 410, St. Joseph, MI 49085, 616/429-0300.

Pennsylvania Turfgrass Conference & Trade Show, Hershey Lodge & Convention Center, Hershey, PA, Mar. 2-5. Contact Christine E. King, Executive Secretary-Treasurer, Pennsylvania Turfgrass Council, 412 Blanchard Street, Bellefonte, PA 16823, 814/355-8010.

The Irrigation Association Short Course, Pasco, WA, Mar. 3-4-5. Contact The Irrigation Association, 13975 Connecticut Ave., Silver Spring, MD 20906, 301/871-1200.

American Society of Agricultural Engineers Symposium on "Engineering Systems for Forest Regeneration," North Carolina State University, Raleigh, NC, Mar. 3-5. Contact ASAE Headquarters, Dept. SESFOR, Box 410, St. Joseph, MI 49085, 616/429-0300.

Southeast Region Parks and Recreation Maintenance Operations Workshop, Unicoi State Park, Mar. 8-13. Contact Charles Gregory, Recreation Advisor, Recreation Services Section, Georgia Dept. of Natural Resources, 270 Washington Street, S.W., Room 704, Atlanta, CA 30334.

The Irrigation Association Short Course, Lansing, MI, Mar. 10-11. Contact The Irrigation Association, 13975 Connecticut Ave, Silver Spring, MD 20906, 301/871-1200.

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Penn-Del ISA chapter meeting. Holiday Inn, King-of-Prussia, PA, Feb. 26-27. Contact Ervin C. Bundy, ISA Executive Director, 5 Lincoln Square, P.O. Box 71, Urbana, IL 61801, 217/320-2032.

Southern ISA chapter meeting, Sheraton (not finalized), Charlotte, NC, Mar. 1-4. Contact Ervin C. Bundy, ISA Executive Director, 5 Lincoln Square, P.O. Box 71, Urbana, IL 61801.

Pennsylvania Turfgrass Conference & Trade Show, Hershey Lodge & Convention Center, Hershey, PA, Mar. 2-5. Contact Christine E. King, Executive Secretary-Treasurer, Pennsylvania Turfgrass Council, 412 Blanchard Street, Bellefonte, PA 16823, 814/355-8010.

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Continues on page 76

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Switching to Pennfine Perennial Ryegrass could color your outlook. It's long been the standard of quality against which other varieties are compared. Why not simplify your life? Go with the most widely used fine-leaved perennial ryegrass in the nation. By the way, if you have trouble finding Pennfine, just ask the turf pro with the best-looking turf around. Chances are he's already using it. Pennfine Perennial Ryegrass, PO. Box 923, Minneapolis, MN 55440

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20906, 301/871-1200.

Northeastern Pennsylvania Turf &
Grounds Maintenance School, Master
Host Motel, Wilkes-Barre, PA, Mar.
10-11. Contact E.V. Chadwick, Luzerne
County Cooperative Extension Service.
Court House Annex, 5 Water Street,
Wilkes-Barre, PA 18702, 717/822-1109.

Residential Landscape Design Short
Course IV, Fisher Auditorium, Ohio
Agricultural Research and Develop-
ment Center, Wooster, OH, Mar. 16-17.
Contact Fred Buscher, Area Extension
Agent-Landscape Horticulture, Admin-
istration Building, OARDC,
Wooster, OH 44691, 216/262-8176.

Hazardous Waste Management Con-
ference, Stouffer's National Center,
Arlington, VA, Mar. 16-17. Contact
Robert W. Nash, executive director,
The Energy Bureau Inc., 41 East 42nd
Street, New York, NY 10017, 212/
687-3178.

Continues on page 79

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Warren's A-34 BenSun bluegrass out-performed 43
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**AVOID NITRATE RUN-OFF.**

Use fertilizer formulations with slow-release Nitroform 38%N to help reduce the problem of nitrate contamination. Use it not only on your greens and tees, but your fairways too. You can apply Nitroform less often, which saves labor and fuel. It also reduces costs.

**NITROFORM® IS ECOLOGICALLY TRUSTWORTHY.**

Nitrogen in Nitroform is held in reserve until turf can use it. Then it is released by bacterial action that increases as soil moisture and temperature increase. This is when turf needs and can use it. Nitroform should be an important element in every well-planned turf fertility program because it assures sustained, high-nitrogen feeding when used consistently.

**INCREASE LATERAL GROWTH.**

In recent tests on athletic fields, slow-release nitrogen increased lateral growth of turf rather than vertical growth. This increased turf density and resulted in fewer athletic injuries.

**NO SALT BUILD-UP.**

Water soluble nitrogens build up the salt level in your soil, which can eventually make it sterile. Nitroform will not build up the salt level.

**LITTLE OR NO LEACHING.**

University tests suggest that although water-soluble nitrogens may be cheaper on a pound-for-pound basis, it may be more economical to use slow-release nitrogen products on turf because of leaching or volatilization of the water-solubles.

**BE ENVIRONMENTALLY RESPONSIBLE.**

**SPECIFY NITROFORM® IN YOUR TURF FORMULA... OR APPLY DIRECT.**

Use Blue Chip® for dry applications; Powder Blue™ for liquid. Good for shrubs and trees, too. Call your turf supplier or write for more information.

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Events from page 76

5th Turf Conference of Reinders Brothers, Inc., Waukesha Expo Center, Waukesha, WI, Mar. 18-19. Contact Ed Devinger, Reinders Brothers, Inc., 13400 Watertown Plank Road, Elm Grove, WI 53122, 414/786-3300.

Irrigation Association's Institute for Agricultural Irrigation, University of California-Riverside, Mar. 23-Apr. 3. Contact the IA, 13975 Connecticut Ave., Silver Spring, MD 20906.


Canadian ISA chapter meeting, Holiday Inn City Centre, London, Ontario, Apr. 1-3. Contact Ervin C. Bundy, ISA Executive Director, 5 Lincoln Square, P.O. Box 71, Urbana, IL 61801, 217/328-2032.

International Symposium on Phytophthora, University of California—Riverside, Apr. 1-4. Contact Forrest D. Cross, University of California—Riverside, Div. of Agricultural Sciences, Riverside, CA 92521, 714/787-3332.


Western ISA chapter meeting, Sacramento Inn, Sacramento, CA, May 17-20. Contact Ervin C. Bundy, ISA Executive Director, 5 Lincoln Square, P.O. Box 71, Urbana, IL 61801, 217/328-2832.

Quebec ISA chapter meeting, Hotel Auberge des Gouverneurs, Sherbrook, Quebec, May 21-23. Contact Ervin C. Bundy, 5 Lincoln Square, Executive Director, P.O. Box 71, Urbana, IL 61801, 217/328-2032.

California Nurserymen's refresher course, Cal Poly, San Luis Obispo, Continues on page 82

Even if you don't own a John Deere tractor, you can still have John Deere behind you.

John Deere offers a full line of quality-built implements to fit nearly any make of small diesel tractor with a Category 1 3-point hitch. For example, there are four mowers: a grooming mower for smooth, even cuts; a rotary cutter for rough terrain; a flail mower for trashy conditions; and a sickle-bar mower for roadsides and hayfields.

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One in turf. One in ornamental plantings. And one in ground cover.

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And then, if you like the idea of getting excellent, long-lasting crabgrass control with a herbicide that's so versatile it's foolproof, you won't mind paying for your next batch of Chipco Ronstar G. Fair enough? Rhône Poulenc Chemical Co., Agrochemical Div., Rhône Poulenc Inc., Monmouth Junction, NJ 08852.

One sample per company. Offer expires June 1, 1981.

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