Dacthal applied now stops Poa annua this fall.

Now is the time to prevent Poa annua and other late-germinating grasses from getting a foothold in your turf. A late summer or early fall application of DACTHAL® herbicide does it. It’s a good follow-up to complete your spring and summer Dacthal program.

And, if you have seeded new turfgrass this summer, Poa annua won’t get a start. Dacthal can be used without injury to new seedings when grass is one to two inches high. In fact, it can be used with confidence on all turf except putting greens and bentgrasses mowed to putting green height.

See your turf chemicals supplier for Dacthal. Or contact the Diamond Shamrock Agricultural Chemicals Division sales office nearest you:
Three Commerce Park Square, 23200 Chagrin Blvd., Beachwood OH 44122; 1401 W. Paces Ferry Rd. NW, Atlanta GA 30327; 5333 Westheimer Rd., Suite 850, Houston TX 77056; Commerce Plaza Bldg., 2015 Spring Rd., Oak Brook IL 60521; 617 Veterans Blvd., Redwood City CA 94063.
Big enough for the jobs you need to do. Small enough so you can afford it.

The new "Little-Big" tractors from John Deere. Now there are two rugged and reliable tractors built to handle jobs too big for a lawn and garden tractor and too small for a farm or industrial tractor. The 22 PTO hp 850 and 27 PTO hp 950 are built to do the jobs you need to do.

The 850 and 950 have big-tractor features for big-tractor versatility. Their 3-cylinder diesel engines are liquid-cooled and fuel-efficient. Transmissions have 8 well-spaced forward speeds, 2 reverse, for creeping below 1 mph to a top speed for transport close to 12 mph. The "Little-Big" tractors turn within a 10-foot radius. Both have a fully-shielded 540-rpm rear PTO. A differential lock that engages on the go is standard along with a 3-point hitch (category I) and an adjustable drawbar. Tread width adjusts front and rear. Ground clearance is nearly 14 inches under the 850—more than 15 inches under the 950.

A lift-up hood makes an 850 or 950 easy to service. Adjustable, fully-cushioned seats make them comfortable. And behind these new tractors is your John Deere Dealer with an expert service staff, complete parts inventory, and a long-term commitment to keep them running like new.

If you have mowing, loading, plowing, digging, planting, or cultivating to do, an 850 or 950 Tractor will do it. See your John Deere Dealer soon for complete details or write for free literature to: John Deere, Box 63, Moline, Illinois 61265.

Choose from a family of tractor-matched implements for all the jobs you need to do:

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Nothing Runs Like A Deere®
All fertilizers are not created equal.

Scotts ProTurf® High Density Fairway Fertilizer is unlike any other fertilizer you can buy. The name itself tells you the kind of beautiful, vigorous results a professional turf manager like you can expect.

Scotts . . . the grass people. We have more than a century of experience in making things grow.

ProTurf . . . Scotts' professional turf division. It means that this is no garden store variety of turf product. It's developed, manufactured and sold specifically—and exclusively—for schools, colleges, golf courses, landscape contractors, lawn service companies, cemeteries, parks, sod growers and other professional users.

High Density . . . a combination of both fast-acting and controlled release forms of nitrogen in each granule. And unlike conventional mechanically mixed fertilizers, each individual granule is the same analysis that's printed on the bag. It's a completely homogeneous fertilizer, so the nitrogen, phosphorus and potassium are distributed evenly. This means the grass plants get the nutrients in the same proportions you selected. It spreads quickly and easily. And is safer for your turf than many commercial fertilizers. When compared to a 12-4-8 fertilizer, it saves you two-thirds of the storage space and reduces labor by as much as fifty percent because you apply fewer bags per acre.

Fairway Fertilizer . . . originally developed to meet the needs of golf course superintendents for a high quality, high nutrient, non-burning, long lasting maintenance fertilizer. ProTurf High Density Fairway Fertilizer is now applied by thousands of turf managers in the United States and Canada in all sorts of use and environmental conditions.

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All ProTurf products are sold directly to professional users. For more information about High Density Fairway Fertilizer or our fifty other fertilizers, fungicides, insecticides, herbicides, combination fertilizer/pesticides, seed and equipment, contact your ProTurf Technical Representative or call ProTurf collect at 513/644-0011.

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GREEN INDUSTRY NEWS

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You might think that someone who gets excited about grass seed must be strange. But if you visit the research facilities of seed companies across the United States and Europe, you would feel interested too.

In the past two months I’ve had the pleasure of visiting seed companies from New Jersey to Post Falls, Idaho. And much to my surprise, I’m excited about varieties ready to enter the market in the next two years.

The greatest swell of research interest is for reclamation. Northrup King, Jacklin, Loftis, International and Stanford all have products ready to serve this blossoming field. They also are studying new varieties tolerant of alkaline and acid soils for western needs.

And before you get used to blue-grasses just released, improved rye-grasses and fine fescues will be available which either add significantly to mixes or stand on their own.

You should visit a seed research farm and talk to a research director. They somehow manage to memorize what grass is located in every three by five foot block of a five-acre field. Then you go to their offices and see stacks of paper bags filled with seed. Each bag has a long number on it and someone knows what each number stands for. In fact, by looking at a few seeds that researcher can tell you the genus.

It used to be that many of the grasses were discovered on a golf course or park where they developed through natural selection. Today, most of the grasses are developed through cloning at research farms. Not only must the grass be disease resistant, but it will never make it to market unless it also produces abundant seed.

Once the new variety is developed, years of testing in many locations across the country are needed before commercial introduction. There are currently a number of varieties in this phase right now. Within the next two or three years there will be a number of new names in turf seed, including a new Merion.

We need to improve our methods of informing the public about new, improved turfgrass varieties. Urban extension agents and retail nurserymen must be kept abreast of turfgrass research. Buyers for discount stores need to know the facts of fine turf seed.

It is your responsibility to advise customers of improved varieties. It is also your responsibility to ask sod producers to grow the new varieties. As a result, customers will receive the best turf available and you will be respected for your up-to-date knowledge of your field.
SPRAY GOODBYE TO INSECTS WITH ORTHENE.

ORTHENE® Tree and Ornamental Spray has got to be the best insecticide news to sprayers, nurserymen, landscapers and outdoor maintenance people in the last 20 years. It kills many different common insect species, including gypsy moth larvae.

ORTHENE penetrates plant tissue for continuing systemic action, controlling damaging pests by contact and as they feed on the plant. Because it's absorbed rapidly, there's little chance of losing the chemical to rain. ORTHENE is registered for gypsy moth larvae, bagworms, spring and fall cankerworms on trees and shrubs, California oak moth larvae on oak trees, thrips and aphids on labeled floral crops.

ORTHENE's oral and dermal mammalian toxicity is low (lower than methyl parathion, for example), so it poses significantly reduced hazard, when compared with other insecticides used for the same purpose, to man and the environment. In fact, applicators and field workers can re-enter the fields or greenhouses as soon as the spray deposit has dried. However, ORTHENE must be handled carefully and applied only according to label directions and precautions.

For more information about this remarkable chemical please fill out and mail us the attached coupon.

Avoid accidents: For safety, read the entire label including cautions and warnings. Use all chemicals only as directed.
GET WEEDS OUT OF YOUR HAIR.

GET MEAN ABOUT GREEN WITH BROAD SPECTRUM TOUGH CONTROLS FROM MALLINCKRODT.

Broadleaf weeds?... they're fair game for Mallinckrodt's TREX-SAN. It clobbers 35 varieties with 3 way synergistic action.

Yet, it's safe to use.

Grassy weeds get the same treatment, pre-emergence, with PRE-SAN.

It's safe for use on greens, with an application rate that makes it affordable for fairways.

And with Mallinckrodt's PO-SAN method of control, you don't have to choose between Poa and a barren fairway.

Get tough about weeds. Mallinckrodt has been doing it for years.

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NURSERY

AAN holds one of largest meetings yet

Dr. Robert Carlson, Michigan State University, received the Norman Jay Colman Award. Robert Dyas, Iowa State University, was presented the L. C. Chadwick Educator’s Award. Howard Van Smith, Florida journalist, was the 1978 recipient of the Garden Communicator’s Award. Dale Wild, Dale Wild Sarcoxie Nurseries, was inducted into the AAN’s Hall of Fame.

The 103rd Annual Convention and Trade Show of the American Association of Nurserymen, held mid-July in New Orleans, was one of the largest in the association's history. More than 1200 nurserymen and landscapers attended the five-day meeting and viewed 93 nursery exhibits.

The meeting was held in conjunction with nine other association meetings, including the All-America Rose Selections (AARS), American Nurserymen’s Protective Association (ANPA), Garden Centers of America (GCA), Horticultural Research Institute (HRI), Mailorder Association of Nurserymen (MAN), Nursery Association Executives (NAE), National Association of Plant Patent Owners (NAPPO), National Landscape Association (NLA), and the Wholesale Nursery Growers of America (WNGA).

General education sessions were held every day and many topics important to nurserymen were discussed. Several important facts on transporting nursery stock were presented by James Morgans. Trying to save on packing before shipment can be more costly in the long run. The best containers are sturdy wooden crates. All excess water should be drained to hold down weight and bare root material should be packed in a water-absorbing medium. Shipment by “pool trucks”, pooling several orders and getting a trailer load rate, was introduced as the most practical and economical way of shipping nursery stock.

Plant conditioning, or “acclimatization”, can prepare a foliage plant for life indoors, upping its chances of survival. Recent research, according to Charles Conover of the University of Florida, has shown that the degree of plant conditioning is more important than the amount of stored carbohydrates when a plant is moved into an indoor environment. It takes approximately 4-8 weeks for the chloroplasts and grana of a plant leaf to orientate to a lower light intensity.

Dr. Charles Krause, plant pathologist at the USDA laboratory in Delaware, Ohio, explained the possibilities of the scanning electron microscope in “plant fingerprinting”. Dr. Krause presented several unique slides in “a view of plants seldom seen”.

Other topics on the educational program included developing a good foreman and attracting, training and keeping personnel. Eric McCarty, Management Concepts, Inc., Dayton, Ohio, presented both topics.

SOD

ASPA meeting keys on seed production

Nearly a fifth of the sod producers in the United States traveled to Spokane, WA, in July to witness turf seed production and to learn the latest technology at the annual American Sod Producers’s Association convention and field days.

A unique irrigation system displayed at the meeting, called Agri-Pop, is placed 18 or more inches below the surface. Special spray heads work their way up through the soil for sprinkling and then retract into the ground when turned off. The manufacturer says the system permits tillage and other surface disturbance without damage to a sprinkler system.

Doyle Jacklin of Jacklin Seed Co. chaired the convention and hosted a tour of the Jacklin turfgrass fields and new processing plant. Since the Northwest is seed country, the sod producers were able to see where improved varieties were developed and grown. Every major turf seed company exhibited at the show as well.

Delegates were treated to a salmon bake, skydiving exhibition, and a stunt flying show. Next year's ASPA field days are set for Columbus, OH. The winter meeting will be held in Scottsdale, AZ, in February.

The AAN serves over 2700 member firms involved in nursery business. Its “Green Survival Program” encourages citizen action for environmental enhancement by saying that any one person can take many small steps to protect and improve the quality of life in our land.
GOVERNMENT UPDATE

EPA returns generic name proposals

The Environmental Protection Agency has returned approximately 1000 forms submitted by industries proposing generic names which the firms wished to declare confidential. In rejecting the forms, the EPA admits that the generic name criteria document was late and that many forms had been submitted before it was available. However, EPA maintains, industry could have made a much better initial effort on its own to provide names which represented a balance between legitimate confidentiality and serving the public interest by identifying basic structure.

ACSH forms to counter "cancerphobia"

The American Council on Science and Health is a newly formed "association of concerned scientists who are alarmed that chemical and cancerphobia has damaged this country and unless arrested will damage it even more," according to Executive Director Dr. Elizabeth M. Whelan. Whelan stated that the council will provide information "based on the classic scientific method, following the standard guideline which compares benefit and risk." The council will issue position papers, consisting of a detailed technical report prepared for the scientific community and a summary report written for a more general audience. One of the first papers, to be issued this fall, will deal with cancer in New Jersey.

Landscape Contractor News

NLA announces landscape award winners

The National Landscape Association has announced the winners of their Eighth Annual Residential Landscape Award Program. Entries were judged on the basis of excellence, as well as practicality of design, selection of plants and materials, execution of the installation, and maintenance of the project.

Awards were presented for single family residences: designed and installed in Atlanta, GA, by Green Brothers Landscape Company; Smyra, GA; designed and installed in Wilmington, DE, by J. Franklin Styer Nurseries, Concordville, PA; designed by John N. Vogley, Oakland, CA, and installed in Orinda, CA, by T. M. T. Company, Lafayette, CA; designed by Wirth Associates, Billings, MT, and installed in Cody, WY, by Matz Landscaping, Billings, MT.

Awards for active use area for family residence included: two awards for residences in Freeport and Atlantic Beach, NY, designed and installed by Atlantic Nursery, Garden Shop and Landscape Company, Freeport, NY; and an award to a design and installation in Lafayette, IN, by Frita Loonsten, Indianapolis, IN.

An award for passive use area of single family residence was presented for design and installation in Manhasset, NY, by Atlantic Nursery, Garden Shop & Landscape Co., Manhasset, NY.

AQUATIC

APMS fights weeds on international level

Speakers from 16 states and four foreign countries provided over 60 topics for 306 registrants at the Aquatic Plant Management Society's 18th annual meeting in Orlando, Florida in July. Officials from the United States Army Corps of Engineers (USACE), Environmental Protection Agency (EPA), Tennessee Valley Authority (TVA), Chemical Companies, British Columbia Ministry of the Environment, University of Khartoum in Sudan, Australia, the Instituto De Investigaciones Sobre Recursos Bioticos in Mexico, and the Panama Canal Zone presented their battle plans in the war against aquatic weeds.

The white amur is now allowed in Florida waters. However, it is being restricted to private, landlocked lakes of 25 acres or less. Out of 125 requests for use of the white amur, 21 have been turned down, and only four accepted so far.

Another fish that promises biological control is the Tilapia zillii. Tilapia are native to Africa and the Middle East and have been introduced in California and Arizona in substantial numbers. It is sold in California grocery stores as "nile perch."

New officers were elected at the meeting. The new president is Julian J. Raynes, United States Army Corps of Engineers, Atlanta, Georgia. He took over the gavel from Donald V. Lee, Louisiana Wildlife and Fisheries, Baton Rouge.

William N. Rushing, USACE, Vicksburg, Mississippi, is the new president-elect. Al Burkhalter, Florida Department of Natural Resources, took over as treasurer. Two new directors were also elected: Leon Bates, TVA, and Max McCowen, Lilly Research Laboratories, Greenfield, Indiana.

Bill Haller took over responsibilities as editor of the society's journal. Anyone wishing a paper published should contact him in the Department of Agronomy, University of Florida, Gainesville, 32611.

The 1979 meeting will be held at the Chattanooga Choo-Choo, in Chattanooga, Tennessee, July 15-18.