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Surflan stops more than 50 different weeds and grasses before they emerge. Yet it's labeled for use on more than 175 different ornamentals. No other ornamental herbicide can top these numbers.

Surflan preemergence herbicide is so gentle on your established shrubs and ornamentals you can spray it directly over the top, even over sensitive ornamentals like petunias. At recommended rates of 3 oz. per 1,000 square feet, Surflan keeps tough weeds out all season long. That makes your work a real work of art.

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Elanco Products Company A Division of Eli Lilly and Company Dept E-455. Indianapolis. IN 46285. U.S.A. Surflan⁺ – (oryzalin. Elanco Products Company)



Over-the-top picture-perfect weed control.

PROBLEM SOLVERS by Balakrishna Rao, Ph.D.

Malathion and Sevin mixed

Problem: Malathion and Sevin are used in combination by some companies for insect control on trees. At what rate should each be applied when mixed together? What are the advantages of this mixture? (Canada)

Solution: The rate at which malathion and Sevin are mixed depends upon the pests to be controlled. For example, malathion can be used from 1.5 pints/100 gal. to 2 pints/100 gal., depending upon the pests to be controlled.

Similarly, 1 qt./100 gal. of Sevin is recommended for most pest control, but when dealing with beetles (like Ips), 2 qt./100 gal. of Sevin is recommended. The rate of these mixtures can be selected depending upon the pest problem.

When mixing malathion and Sevin, do not reduce the amount from their recommended rates because these insecticides are, for the most part, effective on different pests. Reports suggest that a mixture of these would give broad spectrum control of various insects.

Soil drench for birch trees

Problem: Can Cygon 4E be used as a soil drench for birch trees when applied at a rate of ³/₄ oz. per inch diameter of trunk? What time is best for soil drench? Can Cygon 4E be used as a paint on the bark for treatment of birch trees? At what time is it best for Cygon paint? (Canada)

Solution: The Cygon label does not indicate that it can be used as a soil drench for birch trees. Check with your pesticide regulatory agency or the Ministry of Agriculture in Canada to determine the feasibility of its use around birch trees. There is no information on the label to indicate that Cygon 4E can be used as a paint on the bark of the birch tree.

Woolly aphid control

Problem: Can you suggest a method of controlling woolly aphids in fir trees other than using diazinon or malathion? My success rate has been only fair with those pesticides. Would a systemic give better results? (Canada)

Solution: The woolly aphids you are referring to are not true aphids. They are adelgids (*Adelges piceae*). Adelgids are a pest on true firs (*Abies sp.*). It does not affect Douglas fir, *Pseudotsuga menziesii*, a tree that is not a true fir.

Balsam woolly aphids are reported to be all females in the United States. The adults are less than one millimeter long and are purple to black when the straw-colored wax is removed. They are wingless and remain attached to trees with their long penetrating mouth parts.

The eggs hatch into very small crawlers which can be spread to other areas through wind current. After reaching a suitable site, these crawlers introduce their feeding mouth part into the bark and develop whitish, waxy woolly material.

An early sign of damage is a small swelling or "gouting" at the end of the twig. If the infestation is severe, the whole trunk will be covered with the "wool" of the aphid. More susceptible firs such as balsam (Abies balsamea) or Subalpine fir (A. lasiocarpa) may be killed before the terminal swelling occurs.

Spray with Orthene systemic insecticide. This will kill the insects, but the woolly material may remain. It is important to spray thoroughly to get proper coverage to obtain good control. Read and follow label specifications.

Information on Basagran

Problem: You recently wrote about Basagran for use on nutsedge. Where can I obtain more information on the chemical and its availability in Asia? (Singapore)

Solution: For information on Basagran, contact BASF Wyandotte Corporation, Parsippany, New Jersey 07054 USA. BASF personnel should be able to answer your question concerning Basagran's availability in Asia.

Chemical over-application

Problem: If we follow label specifications, is it possible to over-apply an insecticide/fungicide on a tree with a recommended concentration or would the excess spray run off? (i.e. 1.25 liters malathion per 1,000 liters water and 1 lb. polyram per 100 gal. water) I am not referring to the concentration of the chemicals, but the spray applicator spraying too much of the mixture on the tree. (Canada)

Solution: It is unlikely that you could over-apply an insecticide/fungicide on a tree with a recommended concentration. However, if the label specifications are not followed, the results may vary. Another thing to remember is to make sure that the material is labelled for that particular pest, host, and use, and that the foliage is not blasted or sprayed when the temperature is too hot.



Balakrishna Rao is Director of Lawn Care Technical Resources for The Davey Tree Co., Kent, Ohio.

Questions should be mailed to Problem Solver, Weeds Trees & Turf, 7500 Old Oak Boulevard, Cleveland, OH 44130. Please allow 2-3 months for an answer to appear in the magazine.

"Let Blazon take the guesswork out of spraying!"

That's right! All of us have seen it before - that unacceptable area in our fairways or lawn. Just as important, an area where chemicals have been over-applied and a burned condition exists, and that can mean extra work for you. It's difficult to spray accurately and consistently on golf courses because every golf course is made up of countless slopes, contours, and bends. But with Blazon™ Spray Pattern Indicator you can take the guesswork out of spraying, forever. C All you do is add Blazon™right to your spray tank; it's totally compatible with the chemicals you use. It reduces lost time by quickly identify-lem. So contact the distributor nearest you for the product that has taken an art and turned it into a science-"The Professional Solution for Professionals"











Milliken Chemical, Division of Milliken & Company, P.O. Box 817, Inman, South Carolina 29349, (800) 845-8502 Circle No. 134 on Reader Inquiry Card

NOVEMBER 1986/WEEDS TREES & TURF 53

PRODUCTS

Sno Bird trailers offer multi-purpose use

Sno Bird Trailer Co. Inc. offers six models in its expanded line of utility trailers.

The six are available in 12 ft., 16 ft., and 22 ft. bed lengths, and can accommodate several different pieces of equipment such as wide front end mowers and utility tractors.

Ideal for commercial mowing, landscape, and general ground care



services, the trailers feature beaver tail and loading ramp, splash guards, tie-down loop brackets, 10ply tires, 7-gauge rims, and a standard lockable tool box. Capacities range from 1850 to 7000 lbs. Circle No. 190 on Reader Inquiry Card

Floating pump requires minimal maintenance

Barebo Inc., manufacturer of Otterbine products, also manufactures a gas-powered floating evacuation pump that has no seals to wear out and requires little maintenance.

The lightweight portable pump has many uses. It irrigates; aerates fish ponds; cleans boats, docks, and equipment; and drains standing water, evacuation ditches, swimming pools,



sand traps, and other flooded areas.

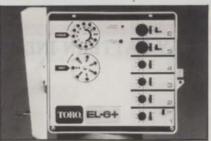
It requires no suction hoses, foot valves, or priming, and discharges water at a rate of 320 small GPM. Circle No. 191 on Reader Inquiry Card

Toro Irrigation debuts EL-6+ controller

Toro Irrigation releases its EL-6+ Controller, designed for residential and light commercial use.

Available in a Cycolac plastic cabinet, the EL-6+ controls up to six stations with individual station timing ranging from three to 60 minutes. Two stations provide up to 12 hours for drip irrigation. The EL-6+ timer is ready to perform immediately after dialingin watering times.

The EL-6+ provides individual station control for automatic or manual operation. Watering schedules can be checked at a glance and no back-up batteries are needed to maintain a program in the event of a power outage.



Circle No. 192 on Reader Inquiry Card



4-Gallon

When you buy a commercial mower from Kees, you get a big, 4-gallon fuel tank, because at Kees, we know what you want from a mower. You want it to get you through tough mowing jobs quickly and efficiently. But stopping to gas up slows you down. So does mower downtime. That's why Kees mowers are built with superior materials and workmanship that gives you years of dependable, trouble-free service. All Kees heavy-duty commercial mowers feature sleek design, Ultra High-Lift blade and fully baffled underdeck for close-quarter mowing and efficient grass clipping

discharge

Kees mowers are built with the operator in mind, with easy-operating fingertip controls, quick cutting height adjustment. Options include easy-riding sulkies, large capacity grass catchers and electric-start engines (48" and 60" models).

There's a Kees Mower for every job. Choose the one that's right for you - 32", 36", 48" or the big new 60" model. But choose Kees, because we know what you want in a commercial mower.

Built by Professionalsfor Professionals.



Circle No. 123 on Reader Inquiry Card

<text>

David Kroll, CGCS, inspects one of 18 PennLinks greens at Wilmington CC, Delaware

PennLinks creeping bentgrass – working wonders at Wilmington

New bentgrass variety provides a truer putting surface at Wilmington CC.

When David Kroll, CGCS, was dealt the problem of bentgrass

This Wilmington green was seeded in early '60s with poor quality seed fraudulently labeled Penncross. All the greens deteriorated to the point that they had to be entirely renovated.



deterioration on the greens of this prestigious country club, he called in the experts to help. The greens could not be salvaged, so they were treated with methyl bromide and completely re-greened.

Dr. Joe Duich, Penn State University, suggested seeding with a bentgrass coded PSU 126.

Two and a half years later, the greens look great and with PennLinks' more upright growth pattern, putt like a dream. That experimental variety is now named PENNLINKS, and is available in limited quantities. Available in limited supply this fall in the re-usable 6 gallon "PENN PAIL."



PennLinks' Oregon certified blue tags qualify for eash awards to qualifying turf organizations for turf research. Call our toll-free number for details. Marketed by TEE-2-GREEN Corp., PO Box 250 Hubbard, OR 97032 1-800-547-0255 TWX 510-590-0957

CLASSIFIEDS

RATES: \$1.00 per word (minimum charge, \$25). Bold face words or words in all capital letters charged at \$1.25 per word. Boxed or display ads: \$85 per column inch-1x (one inch minimum); \$80-3x; \$75-6x; \$70-12x. Agency commissions will be given only when camera-ready art is provided by agency. For ads using blind box number, add \$5 to total cost of ad. Send ad copy with payment to Dawn Nilsen, WEEDS TREES & TURF, 1 East First Street, Duluth. MN 55802 or call 218-723-9200.

BOX NUMBER REPLIES: Mail box number replies to: WEEDS TREES & TURF, Classified Ad Department, 1 East First St., Duluth, MN 55802. Please include box number in address.

BUSINESS OPPORTUNITIES

Excellent business opportunity in northwest Montana, near Glacier National Park. Owners desiring to retire from rapidly expanding bluegrass sod farm. High return on investment; high potential for future growth. Negotiable terms with owner financing. Send letter of interest to: Sod Farm, P.O. Box 2401, Kalispell, MT 59903, or call 406-755-6655. 11/86 WANT TO BUY OR SELL a golf course? Exclusively golf course transactions and appraisals. Ask for our catalog. McKay Golf and Country Club Properties, 15485 N. East Street, Lansing, Michigan 48906. Phone (517) 484-7726. TF

HELP WANTED

LANDSCAPER: Metropolitan Philadelphia area. 45 developed acres cemetery. Long standing management, lifetime opportunity. Compensation and benefits will be discussed on interview. Reply to WTT Box 404. 11/86

Until now... there hasn't been a targeted national forum for the landscape professional.

Pro Show 87

The Professional Landscape Contracting, Turf and Grounds Maintenance Expo (Pro Show) is the international trade show and conference program devoted to the needs of buyers, end-users and manufacturers of landscape contracting, turf and grounds maintenance products and services.

Join with industry heavyweights in power equipment, irrigation, chemicals and fertilizers. Join with other tough-minded landscape buyers, managers, dealers and distributors to evaluate more productive, labor-saving products, to search for more comfortable and safe equipment and to seek new ways to reduce operating costs.

November 17–19, 1987 Dallas Convention Center Pro Show will feature . . . national manufacturers in 125,000 net sq. feet of indoor exhibit space . . . 1 million sq. feet of outdoor demonstration area . . . more than 3 dozen seminars and hands-on tutorials . . . big-time entertainment and Texas-style fun.

Make plans now to participate in Pro Show 87. November 17–19, 1987. Dallas Convention Center. Dallas, Texas.

For exhibit information, call Warren Sellers at 502/582-1672. For attendee information, call Pat Schmidt at 502/582-1672.

Or write:

Pro Show 87 101 N. Seventh Street Louisville, KY 40202 502/582-1672 Telex# 213372 MONT/LVL

The one show. Pro Show.

Sponsored by the Outdoor Power Equipment Institute, Inc.

MANAGEMENT TRAINEES—Northern Nurseries, an expanding, wholesale horticultural distributor, with several locations in the Northeast, has entry level positions available for aggressive, career-minded people. Candidates will be involved in day-to-day operation of distribution centers, training for advancement to management positions. Minimum 2 years trade experience with degree preferred, working knowledge of landscape plant materials, excellent communication skills with strong desire to learn and advance. Send current resume with salary history to Northern Nurseries, Inc., Attn: John Price, 5550 Victor-Manchester Rd., Farmington, NY 14425. 11/86

HELP WANTED: Land Estimator - KT Enterprises, Inc. is expanding its landscape installation department & has a challenging new position in our fast growing firm for the right person with exceptional sales ability. Must be experienced in take-offs and costing. Progressive design/build firm doing business in Washington, D.C. Metro area. Excellent salary, benefits & growth potential. Call John Warren 703-922-8540. 11/86

PESTICIDE APPLICATOR: Responsible for pesticide application on 1,000 acre public display garden under the supervision of Longwood's Integrated Pest Manager, this individual will inspect for plant pest, assist with the development of control strategies and teach the principals of pest management to employees and students. Applicant should have a minimum of 3 years practical experience applying pesticides and/or monitoring pest populations. A B.S. Degree with emphasis in Entomology or Plant Pathology is preferred. The ability to operate a wide range of pesticide application equipment is required. Deadline for applications: January 1, 1987. The salary range is \$20,820 - \$26,700 annually. Excellent benefits. Submit resume and 3 letters of reference to: Donald R. Buma, Longwood Gardens, P.O. Box 501, Kennett Square, PA 19348-0501. 12/86

Fleet Superintendent/Equipment Coordinator to perform maintenance on diesel/gas equipment 80 h.p. to 1 h.p. and coordinate the use of equipment for a grounds maintenance service company throughout the state of Florida. Please send resume to Quandt-Ayer Enterprises, P.O. Box 271880, Tampa, FL 33688. 1/87

IRRIGATION SALES—St. Louis company needs qualified self-starter to develop Irrigation Division. Send resume to: Tom Walker, Outdoor Equipment Company, 160 Weldon Parkway, Maryland Heights, MO 63043. 11/86

Sales and Service person needed in Virginia Beach area. Only experienced, licensed applicators with excellent customer service skills will be considered. Send resume and references to: Lawn Medic of Tidewater, P.O. Box 1786, Chesapeake, VA 23320. TF

Turf specialist wanted for quality oriented, prominent company on Eastern Long Island. Manage lawn care program and crew. Excellent position, year round full-time, wages commensurate experience and benefits. Reply to: Whitmore Worsley, Inc., P.O. Box 10, Amagansett, NY 11930. 12/86

Spray technicians wanted for quality oriented, prominent company on Eastern Long Island. Knowledge of insects and diseases of ornamental trees desirable. Challenging position, full-time, year-round, wages commensurate experience and benefits. Reply to: Whitmore Worsley, Inc., P.O. Box 10, Amagansett, NY 11937 12/86

Circle No. 138 on Reader Inquiry Card 56 WEEDS TREES & TURF/NOVEMBER 1986



The wrong fertilizer has its way of leaving a lasting impression on your customers.

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Circle No. 127 on Reader Inquiry Card

Tree pruners and climbers wanted for quality oriented, prominent company on Eastern-Long Island. Excellent position, full-time, year round, wages commensurate experience and benefits. Reply to: Whitmore Worsley, Inc., P.O. Box 10, Amagansett, NY 11930 12/86

Landscape Architects/Supervisors (project foremen) join a nationally acclaimed firm looking to expand into its second generation Long Island area supports a high budget landscape industry. Year round employment, company benefits and continuing education available. Experienced and aggressive people send resume to: **GOLDBERG & RODLER, INC.,** 216 East Main Street, Huntington, New York 11743. 1/87

A rapidly growing lawn care company seeks an individual to perform liquid/granular lawn care applications, as well as lawn renovations. Job has potential to grow into sales and management position. Long hours required during peak periods. Solid background and experience in turf required. Top pay and benefits package. West suburban Boston. Call (617) 444-0944 anytime. 11/86

LANDSCAPE MAINTENANCE. Top notch Washington D.C. area landscape firm is looking for a responsible foreman to do residential maintenance, emphasizing quality tree, shrub and bed care. We are also seeking a spray technician trainee to assist with our integrated pest management program etc. Good pay with benefits. No weekend work. Willingness to work hard and produce is essential. Related education or experience preferred. Send resume and reference to: Garden Gate Landscaping, 821 Norwood Road, Silver Spring, MD 20904. 11/86

Maintenance foreman to do quality commercial maintenance. Knowledge of turf and ornamentals and at least 3 years experience. Good salary and benefits. Reply to Country Greenery, Box 638, Pittstown, NJ 08867. 11/86 GENERAL MANAGER—UNDERGROUND SPRINKLER CO. Growing lawn sprinkler installation company. We are opening our fourth office in the Midwest. We need an expert in underground irrigation with excellent business knowledge and objectives. Experience should include design, installation, scheduling, service, sales and administration. Send resume to The Lawn Pros Sprinkler Co., 3508 B Roger B. Chaffee Blvd., Grand Rapids, MI 49508 11/86

HELP WANTED—LANDSCAPE SALES & SU-PERVISOR: Person interested in managing a small landscape division. Plenty of opportunity for growth in both residential and commercial areas. Some irrigation experience would be helpful. Salary range from 13m to 18m, depending upon experience and education. Full company benefits. Send resume to: ANTIETAM TREE AND TURF, 405 N. Burhans Blvd., Hagerstown, MD 21740, Attn: J.R. Finn. All replies strictly confidential. 11/86

SUPERINTENDENT LANDSCAPE MANAGE-MENT—Premier firm seeking motivated individual to contribute to continuous success in professional horticultural care. Responsible for scheduling and expediting tree, lawn, residential and commercial maintenance crews; procurement of materials and equipment. Strong people skills, organization and management skills are essential. Contact LIED'S, 8616 Hwy. 45, Neenah, WI 54956. 11/86

Large successful landscape firm in Southwest U.S. is searching for landscape maintenance operations manager and/or business manager. Must be professional, knowledgeable and experienced. A motivator and coordinator of people. Not afraid of hard work. Must also be a great manager, aggressive and energetic. Excellent salary and benefits. Reply to WTT Box 405. 11/86 TREE & SHRUB CARE MANAGER: Expanding lawn and tree care company has a new position in the recently opened San Antonio operations. Position requires a proven manager with minimum 2-5 years experience in managing residential tree and shrub spraying; technical expertise in implementing a workable chemical program; and good financial knowledge of the tree spraying business. Competitive benefits and compensation. All replies are kept confidential. Send resume to: Manager, Ever-Green Lawns, 7438 Reindeer Trail, San Antonio, TX 78238 EOE. 11/86

International seed company desires U.S. sales/ marketing manager with experience in forage/turf grass seed and sales. Agricultural college graduate. Support from strong breeding programs. Send resume and references to Van Der Have Oregon, Inc., P.O. Box 1496, Albany, OR 97321. All replies will be confidential. 11/86

IRRIGATION MANAGER:—Seeking qualified manager for full-time position to build up Irrigation Division. Will be responsible for (TORO) Irrigation sales to Golf Courses, Municipalities, Residential/ Commercial Contractors. Must have some knowledge of design. Eastern New York and Vermont territory - One of America's most desirable areas. Respond with resume to: President, Grassland Equipment & Irrigation Corp., 892-898 Troy-Schenectady Road, Latham, New York 12110. 11/86

PROJECT MANAGER: Excellent opportunity for career and goal oriented individual to work with a commercial landscape firm in Atlanta, Georgia. Must be experienced in all aspects of landscape construction and willing to assume total responsibility. Good salary, benefits and incentive program. Scapes, Inc., 404-956-7500. 11/86





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