# The fight against yellow nutsedge begins here.

### Only Basagran<sup>®</sup> T/O ends it here.

Unlike other herbicides which only burn back yellow nutsedge above the surface, Basagran T/O herbicide travels down to control the roots, rhizomes and tuber network underground. It's the only way to be sure those same weeds won't come back.

An over-the-top application is all it takes to win the fight against yellow nutsedge and broadleaf weeds. (A second



application is recommended when regrowth occurs.) And while it's tough on weeds, it's easy on virtually all varieties of established turf.

Basagran T/O is also labeled for directed sprays in ornamental varieties.

For more information on how to control yellow nutsedge and broadleaf weeds with Basagran T/O, call **Toll Free 1-800-874-0081.** 

**BASF** Corporation



Always read and follow label directions. Basagran is a registered trademark of BASF AG. © 1991 BASF Corporation Meyer Z-52 zoysia sod, bermuda-free, forklift delivery to the Mid-Atlantic region. Oakwood Sod Farm, Salisbury, MD 301-742-3086. 4/91

LAWN SEED: Wholesale. Full line of top quality grasses. Improved bluegrass varieties, tall fescues and fine bladed ryegrasses. We specialize in custom mixing. Oliger Seed Company, 89 Hanna Parkway, Akron, OH 44319. Call collect (216)724-1266. TF

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PAUL FLORENCE Turfgrass: Quality seed for the Turf Professional. Elite Bluegrasses, Fine-Leaf Ryegrasses, and Turf-Type Tall Fescues. Custom mixing our specialty. Silva-Fiber mulch and supplies for hydro-seeders. Quality Elite Bluegrass Sod. Call us! (513)642-7487. 13600 Watkins Rd., Marysville, OH 43040. TF

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FOR SALE: Blader Tanks, Well Pump, F-10, Top Dresser, and more. Call Ken Fishback 919-846-1643. Wildwood Green Golf Club. Raleigh, NC. 2/91

FOR SALE: Northwestern Indiana sod business serving the Chicago and Indianapolis markets. Includes all rolling equipment, buildings, irrigation and 1 1/2 million yards of harvestable sod on 530 acres. A profitable well established business. Call or write WILLE & STIENER REALTORS, P.O. Box 290, Crown Point, Indiana 46307. Attention: Gil Stiener. Phone (219)663-2990. 3/91

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Sod, sprigs, row planting, strip sodding, solid sodding, fairway renovations, complete turn-key jobs. 16 yrs. golf course experience. 1-800-458-4756, DOUBLE SPRINGS GRASS FARM, Searcy, Arkansas. TF

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\*86 ROTOMIST BLOWER for sale: 500 psi bean pump powered by a 4 cyl. Ford gas engine. 250 gal. tank. Contact Mike Young at Edmonds Landscaping. Halifax, Nova Scotia, Canada, 1-902-423-8174, Fax 1-902-455-9956. 4/91 Lawn Assistant, Software and Updates thru August '90. \$900. Call 918-258-3566. 2/91



NEW AND USED BROUWER EQUIPMENT: Mowers - VACS - Fork Lifts - Harvesters - and full line of replacement parts. Contact Glenn or Ed Markham at 1-800-458-3644.

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Rocky Mountain and NW States-Grounds or Parks Management; B.S. Agronomy, 15 years in landscape industry managing public and private concerns. Licensed Applicator and Irrigator, good knowledge of sports turf in transition zone. Resume upon request, send SASE to: LM Box 485. 3/91

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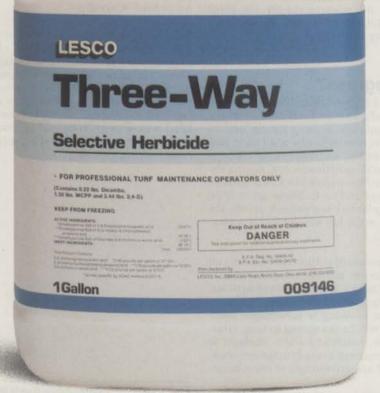
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152   RGB Laboratories, Inc.   .45     133   Rhone Poulenc Ag. Co./Chipco   .12-13     134   Rhone Poulenc Ag. Co./Ronstar   .15     135   Rhone Poulenc Ag. Co./Ronstar   .15     136   Ringer Corp.   .99     137   Sandoz Corp.   .56     140   Scag Power Equipment   .28-29     139   Scott Proturf, O.M.   .24-25     138   Seaberry Landscaping, Inc.   .26     141   Sweepster Jenkins Equipment   .22     142   UAP Special Products   .23     143   Tee 2 Green Corp.   CV2     144   Toro Co.   .62-63     145   Turf Seed Co.   .61-17     145   Turf Seed Co.   .61     148   Vigoro Industries, Inc.   .22     149   Walker Manufacturing, Inc. (Reg.)   .14     148   Vigoro Industries, Inc.   .22     149   Walker Manufacturing, Inc.   .70     150   Wells Cargo, Inc.   .70     151   Woods Div. of Hesston Corp.   .35     Literature Round-up <td></td> <td>PBI Gordon Corp./Trimec</td> <td>-21</td>		PBI Gordon Corp./Trimec	-21
133   Rhone Poulenc Ag. Co./Chipco   .12-13     134   Rhone Poulenc Ag. Co./Ronstar   .15     135   Rhone Poulenc Ag. Co./Ronstar   .15     136   Ringer Corp.   .39     137   Sandoz Corp.   .56     140   Scag Power Equipment   .28-29     138   Seaberry Landscaping, Inc.   .26     141   Sweepster Jenkins Equipment   .22     142   UAP Special Products   .23     143   Tee 2 Green Corp.   .CV2     144   Toro Co.   .62-63     145   Turf Co Manufacturing, Inc. (Reg.)   .14     148   Vigoro Industries, Inc.   .22     149   Walker Manufacturing, Inc.   .70     151   Woods Div. of Hesston Corp.   .35     1520   Belton Industries   .47     250   Belton Industries   .47     251   Coron Corp.   .49     252   Curv-rite Aluminum Edging   .48     253   Doggett Corp.   .49     254   Encore Manufacturing Co., Inc.   .48     255   F		RGB Laboratories Inc.	45
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253   Doggett Corp.   49     254   Encore Manufacturing Co., Inc.   48     255   Feldmann Eng. and Mfg. Co., Inc.   50     276   Finn Corp.   47     255   Four Star Agricultural Services   47     256   Four Star Agricultural Services   47     257   Grasshopper Co.   49     259   Great Salt Lakes Mineral   48     260   Green Graphics   50     258   Growth Products   49     261   Landscapers' Supply Corp.   48     262   Mobay Chemical Corp.   49     263   Nor Am Chemical Co.   48     264   Onan Corp.   50     266   Perprietary Seeds, Inc.   49     267   Reemay, Inc.   49     268   Roots, Inc.   47     270   Spraying Devices, Inc.   50     271   U A P Special Products   49     277   Unimin Corp.   50     272   Valent Corp.   48     274   Woods Div. of Hesston Corp.   48	252	Curv-rite Aluminum Edging	. 48
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		Woods Div. of Hesston Corp.	50

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### **PROBLEM MANAGEMENT**

### Diagnosing pin oak disease

**Problem:** Every year we see severe leaf spot type of disease on pin oaks. Any idea what causes this? How can it be managed? (Missouri)

**Solution:** Without examining the affected leaves, it is difficult to diagnose accurately. Oaks in your area as well as many parts of the country get several late season leaf diseases.

Actinopelte leaf spot is one of the most common late season leaf spot diseases caused by the fungus. Although most oaks are susceptible, pin oak is frequently the most commonly affected. This disease apparently is common in pin oaks suffering from iron deficiency and showing iron chlorosis symptoms. Symptoms of actinopelte leaf spot begin to appear in middle to late summer. The disease generally doesn't get severe until August. The fungus produces small, circular to angular reddish-brown spots which are 2 to 15 mm in diameter. The spots will coalesce and become larger, irregular areas of necrotic leaf tissue.

If the disease is severe it can cause the leaves to defoliate prematurely. The fungal agent is a weak pathogen which establishes on leaves damaged mechanically or by other diseases or iron chlorosis. Chemical control is not warranted since the infection occurred late in the growing season; the plant had a chance to produce normal sugar for the year; and damage to the tree is minimal.

### Info on zoysiagrass?

**Problem:** Where can I find detailed literature available on zoysiagrasses? Lawn and turf books usually cover the zoysia japonicagrass very lightly and in insufficient detail. Also, what type of scarification program should be maintained on zoysiagrass? At present, there is a thick build-up of thatch, and during the dormant period, the turf has a dark black background which is rotting cuttings and roots. These are over 30 years old and well implanted. We've been cutting the lawns to ground zero in the fall which I feel is wrong. (Italy).

**Solution:** We are not aware of authoritative works on zoysiagrass. References to zoysiagrass are typically brief sections of turf books and reprints of articles. Perhaps one of our readers will be aware of a source of information. Close mowing is sometimes practiced just prior to growth in the spring to help minimize the potential for thatch and allow sunlight to warm the soil, and encourage a rapid turfgrass recovery. I am not aware of any advantages of close mowing in the fall.

For thatch maintenance, consider aerification or dethatching in the spring. Aerification is effective in maintaining the proper thatch depth but may not be effective in reducing excessive levels. Core aerification removes a small plug of soil which is deposited on the surface. Scattering the core will provide "topdressing" which aids in microbial breakdown of thatch. Mechanical dethatching literally tears the thatch out of the lawn and in the process, injures the turfgrass.

On warm-season grasses such as zoysia, this procedure should be practiced only in the spring to allow for the maximum recovery period. Considerable debris is loosened which should be raked and discarded. If thatch is too thick to be adequately reduced by dethatching, the lawn should be renovated and then properly maintained to prevent thatch accumulation.

### Preventing pine cones

**Problem:** The campus at the University of Waterloo, Waterloo, Ontario is approximately 1000 acres in size. Intensive landscaping practices are required on 200 acres and maintenance is carried out as efficiently as possible. One of the problems we have with our maintenance program is with the cones from a large number of Austrian or black pines. Throughout the spring and early summer, cones cover the ground causing litter problems, particularly when mowed. Perhaps you can advise us as to the availability of some type of solution or spray which can be used to prevent the development of cones. As the trees are landscape trees, it is important that they are not damaged. It would also be desirable if the solution did not harm bees. (Canada)

**Solution:** At the present time, there aren't any materials registered for the removal of cones on pines. Reports from preliminary work suggest that Chipco Florel pro brand plant growth regulator manufactured by Rhone-Poulenc is showing some promising results. However, currently it is not on the Florel label. Possibly it can be used in the near future if the label is expanded. Your best approach now would be to hand or mechanically rake the cones or prune the cone bearing branches.



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Questions should be mailed to Problem Management, LANDSCAPE MANAGEMENT, 7500 Old Oak Boulevard, Cleveland, OH 44130. Please allow 2-3 months for an answer to appear in the magazine.

## **News from Monsanto...**



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