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Your turf maintenance crew will be pleased with the professional results they get from Ransomes Bob Cat intermediate walk-behind mowers. Choose a 32", 36" or 48" cutting width to meet your specific needs and enjoy the confidence that comes with good grooming. Optional riding sulky and grass catchers available for all three units. Mowers are equipped with either 11 HP Briggs & Stratton or 11 HP Honda engine. See your Ransomes Bob Cat distributor or call Ransomes, Inc., One Bob Cat Lane, Johnson Creek, WI 53038, (414) 699-2000.

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BENTGRASS FORMULA

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WEED & BRUSH KILLER

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Groundskeeper  
George Toma says:

**“Look for the Trimec Seal when you select a designated hitter for your turf program.”**

*“The key to efficiency in turf management is to select specific tools for specific jobs, so you can do it right the first time. That’s why the Trimec people make a specific complex for use in specific situations. That’s why I use Trimec. I call it my designated hitter that bats 1000.”*

*George P. Toma*



*George Toma is a turf grass consultant. He is groundskeeper for the Kansas City Royals and the Chiefs, and has been in charge of preparing the playing fields for all 17 Super Bowls and Pro Bowls that have been played to date.*

**A**s a turf professional you probably agree with your peers that acre for acre and dollar for dollar, Trimec turf herbicide is unsurpassed in effectiveness and efficiency. But perhaps you don’t realize that Trimec is being constantly improved through the development of new complexes for use in specialized situations... Designated Hitters to help you increase your efficiency.

**Which of these problems are you going to solve with a Trimec designated hitter?**

**Problem:**  
The control of weeds like *Spurge* and *Oxalis*, and other tough weeds that have hardened off during hot weather.

**Answer:**  
Trimec Turf Ester. The most recent technological breakthrough in broadleaf weed control. It breaks down the hard waxy cuticle and allows the Trimec to penetrate and do its job.

**Problem:**  
The control of Red Cedar, Brambles, Multiflora Rose, Thistle, Oak, Kudzu, Poison Ivy, Poison Oak and many other hard-to-kill species of brush, without harming desirable grasses.

**Answer:**  
Trimec 352. Years of research have gone into this complex. Thousands of gallons have been used and results are excellent.

**Problem:**  
The control of broadleaf weeds with a herbicide that can be applied with liquid fertilizer.

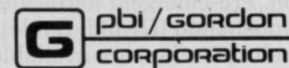
**Answer:**  
Trimec Lawn Applicator Formula. This Trimec complex is especially designed to be used with large quantities of water.

**Problem:**  
The control of broadleaf weeds with a weed-and-feed granular product.

**Answer:**  
Select a brand that displays the Trimec seal on the bag. Only Trimec makes an herbicide that is specifically designed for granular weed and feed.

**Problem:**  
The control of broadleaf weeds in turf.

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Circle No. 124 on Reader Inquiry Card

546-183



# GET TOUGH

on  
Dollar Spot  
Fusarium Patch  
Leaf Spot  
Brown Patch  
Red Thread

\*Approval Pending

## PROBLEM SOLVER

By Balakrishna Rao, Ph.D. and Thomas P. Mog, Ph.D.

**Q:** Do you have any tips on getting ground covers established under tree canopies without massive hand weeding? (Ohio)

**A:** Establishing ground covers under tree canopies is not very difficult; however, to have a weed-free ground cover, beds require a little bit of effort. The following guidelines should help you establish ground cover under trees with a minimum of weed problems and possibility of hand weeding.

Prepare the soil in the planting area by removing the sod and tilling the soil to at least 6 inches deep. If the soil is clay, improve drainage and incorporate organic materials such as leaf mold, compost, rotted manure, peat moss or similar materials to improve the aeration, penetration and infiltration. Based on soil test results, adjust the pH (to 6-7) and fertility levels.

Although plants can be planted at anytime during the growing season, for best results plant them during early spring and early fall. Plants like English ivy, pachysandra or myrtles are usually planted on one-foot centers and cotoneaster, junipers and euonymus three feet apart. For quick fill-up, plant them closer.

Weed problems can be eliminated or minimized by uniformly spreading mulching materials like peat moss, sawdust, wood chips and pine bark. Mulching also can enhance establishment by maintaining uniform temperature and conservation of moisture. Wood chips and sawdust materials can require the addition of nitrogen to speed up the decomposition. Pre-emergent herbicides, such as DCPA (dacthal), diphenamid (Dymid, Enide), norea (Herban), and trifluralin (Treflan) are available as

alternative tools to control weed seeds as they germinate. The above materials give better control of annual grasses than broadleaf weeds. Usually herbicides should be applied yearly until the ground cover fills in properly. This will minimize the need for hand weeding.

Keep the area properly watered during establishment and during dry periods.

You could also consider producing ground cover in a sod-like manner. Reports from Ohio State University indicate that plants like euonymus, English ivy and pachysandra can be grown in a sod-like manner and can be rooted into the soil and established 6 months after transplanting into the field. With this method, you should have little need for hand weeding.

**Q:** Please give your recommendations for killing tall fescue which is growing up through junipers we have covering a hillside. We have several thousand shrubs, so you can see the magnitude of the problem. The fescue appears to be perennial. What do you recommend that can be applied as a spray directly to the plants without any damage to them? (New York)

**A:** Dichlobenil (Casoron) is labelled for the control of fescue in juniper. Casoron granules are easily applied with a hand-held cyclone spreader and penetrate through the foliage dropping to the ground. Casoron, as a wettable powder, may be sprayed over plants, but because of the density of juniper foliage, it is best to direct the spray to the area beneath and around the plants.

A recent report from Ohio State University indicates that dichlobenil, formerly marketed only as Casoron by

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# GET TOUGH

on  
Cut Worms  
Chinch Bugs  
Sod Webworms  
Billbugs, Grubs and  
Many Other Insects

spores are colorless, one-celled, long and narrow, and curved or hooked on one end. The presence of beta spores makes identification of *P. juniperovora* fairly easy.

Benomyl is federally registered for *Phomopsis* blight and prevents infection of the new foliage.

Poor drainage, shade and overhead sprinkling seems to encourage development of this disease. Situations which discourage infection are well-drained beds, sunlight and watering underneath the branches.



Balakrishna Rao is plant pathologist and Thomas Mog is pest management specialist for Davey Tree Expert Co., Kent OH.

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

the Thomson Hayward Company, is now available under the following trade names and forms:

Casoron - Uniroyal Agricultural Chemicals (for commercial use);

Dyclomec - Acme Agricultural Products (for home garden use - pbi/Gordon); and

Norosac - Gordon's Professional Products (for commercial use - pbi/Gordon).

**Q:** Is there a disease which causes browning and dieback of spreading junipers? It must be a disease because we haven't seen any insects or red spiders. (Pennsylvania)

**A:** Dieback is caused by many things and for an accurate diagnosis, the plants or some of the affected branches must be examined.

*Cercospora sequoiae* and *Phomopsis juniperovora* are two fungi which cause a blight disease of junipers. Winter injury or drought will also result in symptoms similar to those you described.

*Cercospora* starts on the oldest needles of the lower branches spreading upward and outward; whereas, *Phomopsis* infects the youngest needles first.

*P. juniperovora* is more common than *C. sequoiae* on ornamental junipers. The following information should be helpful in identifying *Phomopsis* blight. Symptoms start at the tips of branches. The green color of the foliage gets lighter, then red-brown, and eventually turns to an ashen grey. Stems about 3/8-inch in diameter or smaller may have cankers because the fungus grows through the needles and into the stem. These cankers eventually girdle smaller branches. Sometimes small, black fruiting bodies (pycnidia) can be found on dead and dying tissue, usually they appear in the advanced stages of infection.

*Phomopsis* is somewhat unusual in that it produces two kinds of spores called alpha and beta spores. The beta

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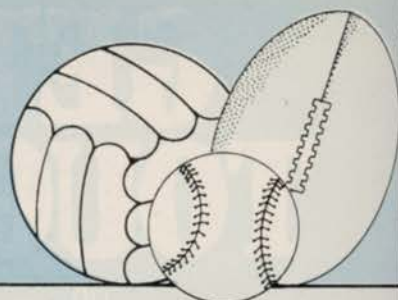


understand players don't like it as well and more than a third feel it should not be used as a substitute for natural turf, but they still see it practical for certain limited cases.

Surprisingly, park superintendents reported they manage more tennis courts than soccer fields. Baseball and softball fields are the most common athletic responsibility of the superintendents with 86 percent managing an average of 14 fields. Nearly 70 percent manage an average of 13 tennis courts. Two-thirds care for an average of 7 soccer fields. Football fields are the responsibility of 57 percent of the park superintendents with an average of 4 fields. Sixty percent are responsible for swimming pools with an average of 2.5 pools. Finally, less than a fifth care for golf courses.

The average acreage managed is 208 acres. The most common title is superintendent of parks and recre-

**Impact on Athletic Field Use  
by Percent Responding**



	Great	Moderate	None
Women's Sports	48	48	4
Soccer	52	34	9
Children's Sports	55	45	0
Teenage Sports	41	62	0
Adult Sports	69	38	0

ation. The closer the individual in charge of fields is to the actual maintenance, the more knowledgeable he is. A set of national standards for park athletic fields could be a major support for park superintendents in combatting in-

tensive wear of athletic fields. We offer Dr. Daniel's standards here as an example.

It seems only sensible to spend a little more for natural field maintenance than a great deal more for an artificial surface. **WTT**

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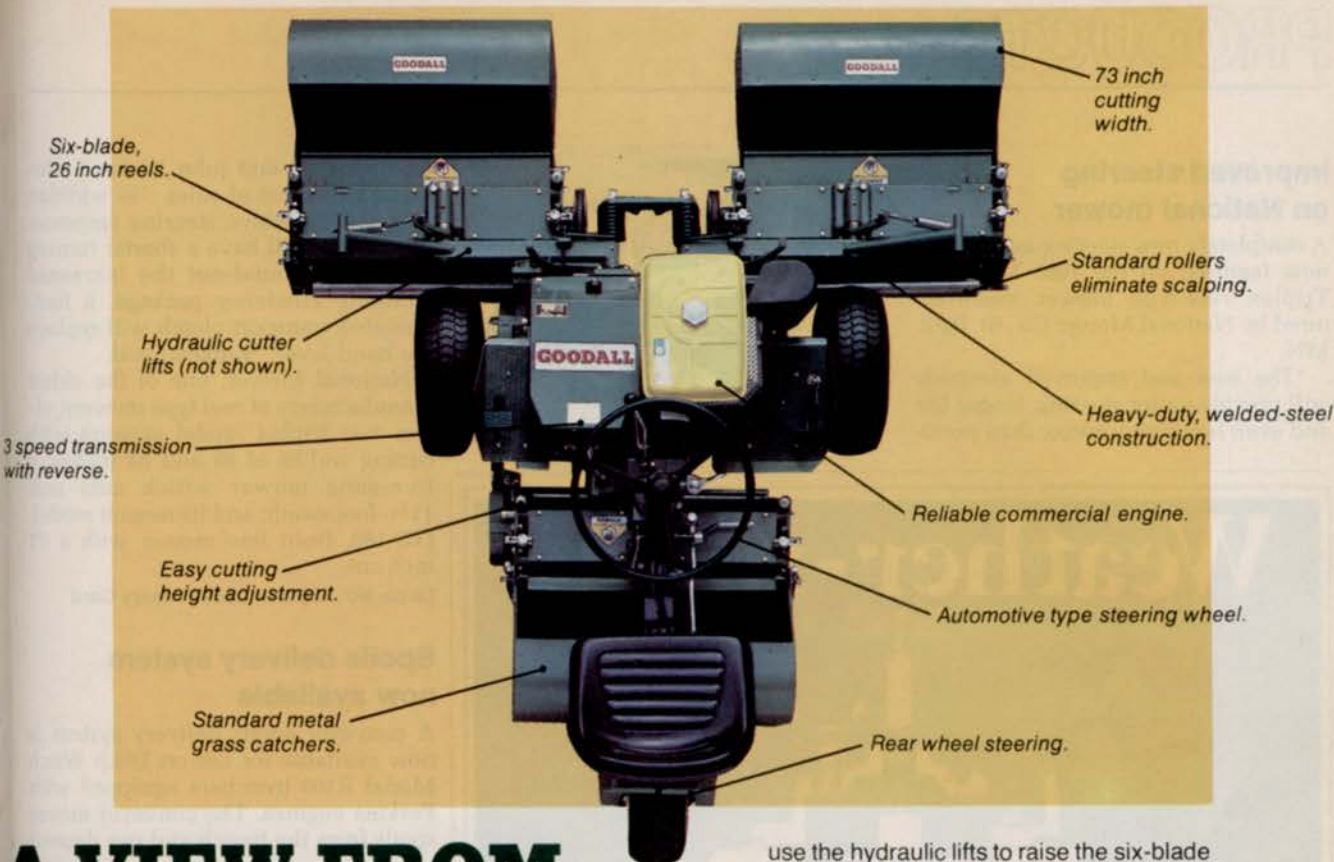
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use the hydraulic lifts to raise the six-blade cutting reels (the only place you would really want hydraulics on this baby) and move out at nearly 10 mph.

And that's not all. There's the proven reliability of the 4-cycle Robin engine, the standard front and rear reel rollers, the independent ground and reel speeds and more.

When you climb into the driver's seat of a Goodall triplex mower you will immediately appreciate its engineering and construction. Once you see the quality cut it delivers on your tees, collars and approaches, you'll know it's no ordinary mower.

First, notice its basic design. No jungle of hydraulic motors and hoses. No sheet metal boxes hiding this and that. Just good clean design. Followed up with good solid construction.

Can something so simple perform such a complex job? Drive on!

You'll be impressed by the excellent maneuverability and stability achieved by the three wheel design, low center of gravity and wide wheel base, as you run it around your hard to cut traps at  $7/16$  of an inch and 3 mph.

And, the versatility is unmatched as you can quickly adjust the cutting height up to  $2\frac{3}{4}$  inches and mow your roughs at up to 6 mph.

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# PRODUCTS

## Improved steering on National mower

A completely new steering assembly is now featured on the 1983 Model 84 Triplex reel-type mower manufactured by National Mower Co., St. Paul, MN.

"The new and improved assembly will provide easier steering, longer life and even less maintenance than previ-

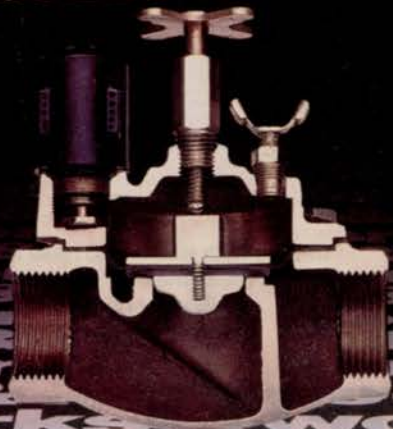


ous models," said John Kinkead, National's director of sales. "In addition to a more positive steering response, the mower will have a shorter turning radius. To round-out the increased handling efficiency package, a foot-operated transport clutch will replace the hand lever," Kinkead said.

National Mower, one of the oldest manufacturers of reel type mowers, offers two triplex model mowers with cutting widths of 68 and 84 inches; a five-gang mower which cuts and 11½-foot swath; and its newest model, JTS-180, front line mower with a 71 inch cut.

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## Weather-matic



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## Spoils delivery system now available

A conveyor spoils delivery system is now available for use on Ditch Witch Model R100 trenchers equipped with Perkins engines. The conveyor moves spoils from the trench and can deposit



the material to either side of the trench. The conveyor is able to move more spoils than auger spoils delivery systems.

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## Brochure describes Pene-Turf permeability

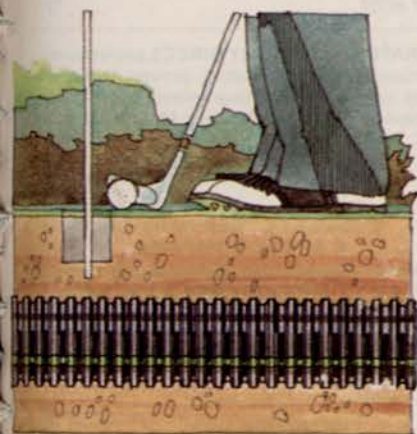
A new full-color brochure published by Four Star Agricultural Services shows how Pene-Turf Soil Treatment can improve permeability and aeration in the soil. An annual application of Pene-Turf can help establish better rooting, eliminate isolated wet and dry spots and reduce soil erosion problems. Independent tests show that Pene-Turf speeds water percolation through any type of soil, thus promoting better drainage. The brochure is available free.

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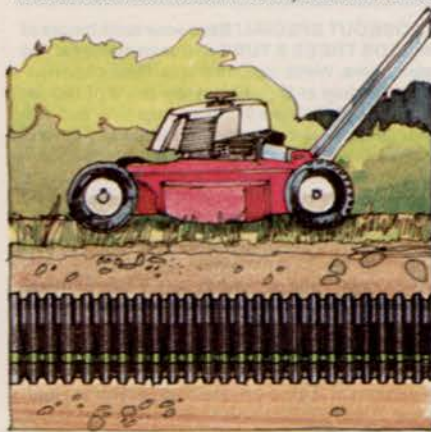
ADS keeps your athletic fields dry.



ADS controls water runoff in heavily trafficked areas.



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Whether you buy or sell turf care products, you want quality. That's why ADS polyethylene tubing is your best bet. For healthy soil, drainage is important. Strong and durable, ADS tubing provides years of trouble-free drainage, and helps maintain stable soil systems.

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