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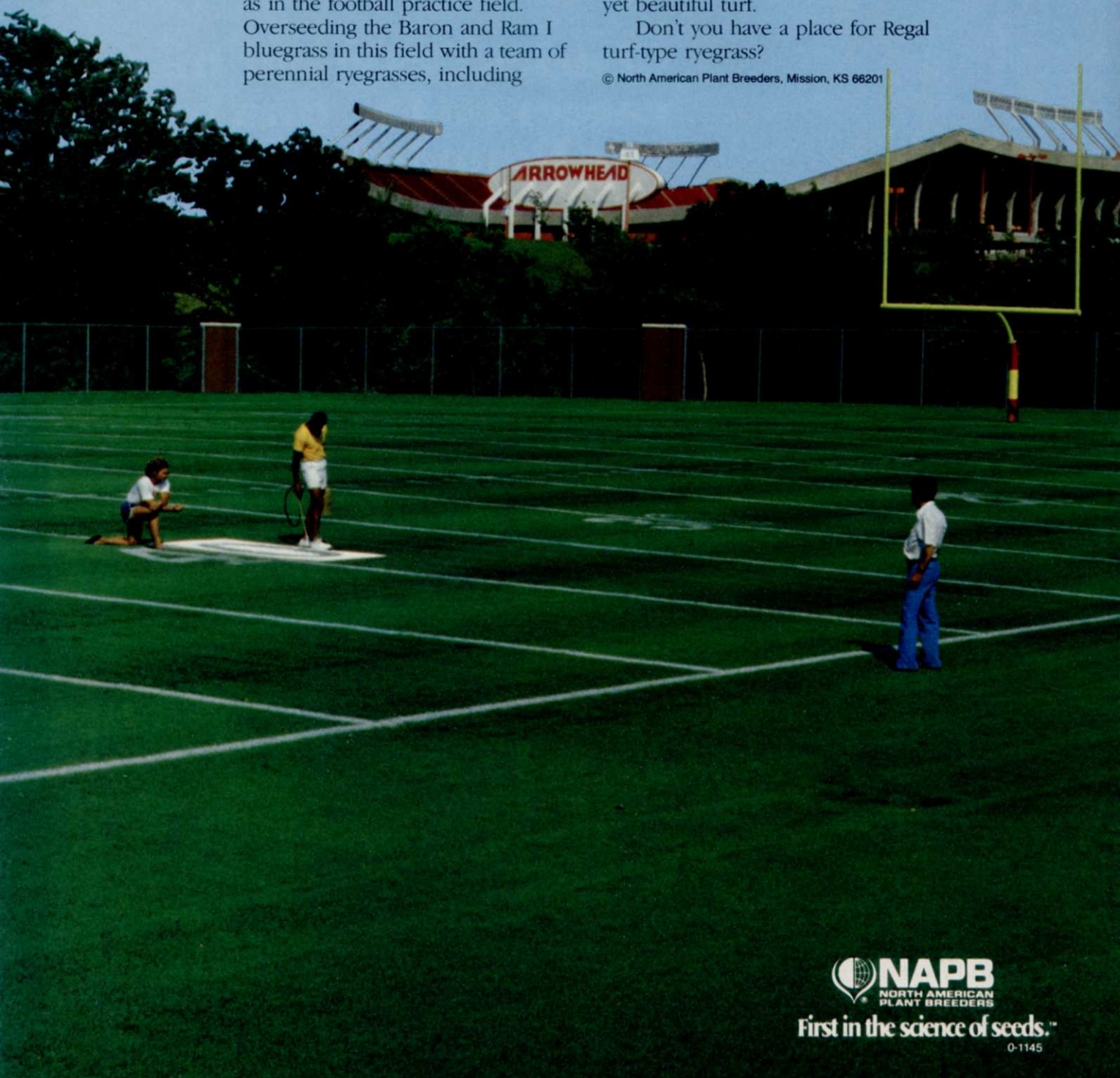
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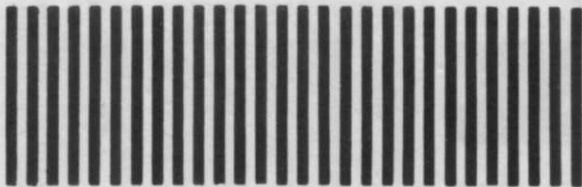
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unionization.

Rich Brolick, Zelenka Evergreen Nursery, Inc., Grand Haven, MI, spoke about problems with migrant labor. His company has spent over a million dollars in migrant facilities. "The key to the whole migrant program is the housing," said Brolick.

In addition to the sessions, John B. Wight, Jr., president and chairman of the board of Wight Nurseries, Inc., Cairo, GA, was elected president of AAN, replacing Hugh Steavenson, president of Forrest Keeling Nursery, Elsberry, MO.

The AAN inducted John J. Pinnery, Ottawa, KS, into the Nurserymen's Hall of Fame. It also presented two national awards to Harold Davidson, professor of horticulture at Michigan State University, for his nursery research contributions and effective teaching in horticulture.

To commemorate the convention, the AAN held a tree planting ceremony at the Nelson Gallery of Art and Atkins Museum in Kansas City.

#### LAWN CARE

### New officers elected for Lawn Institute

Norman Rothwell of N.M. Rothwell Seeds, Ontario, Canada, has been recently elected president of the Lawn Institute, and 18 new members have been elected to the Board of Trustees.

Other members serving with Rothwell will be Robert Peterson of E.F. Burlingham & Sons as vice president, and Robert Russell of J & L Adikes, Inc. as secretary-treasurer.

The Lawn Institute, sponsored by lawnseed breeders and growers, is a nationally recognized source of information concerning lawngrasses.

#### PROMOTIONS

### Toro promotes Adams to new position

The Toro Company recently promoted

James W. Adams to the new position of senior vice president, International Operations, joining Toro's six-member executive management committee.

Since starting with the company in 1974, Adams has been a group vice president of Toro's irrigation operations.

#### COMPANY

### International Harvester changes co. name

International Harvester, Payline Group, has altered its name to Construction Equipment Group.

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# WT&T

## VEGETATION MANAGEMENT

By Roger Funk, Ph.D., Davey Tree Expert Co., Kent, Ohio

**Q:** What is the best chemical to control cottony maple scale on silver maples?

**A:** We use primarily a combination of malathion and and sevin during the crawler stage (July in the Northeast). Field studies have shown similar results with Diazinon.

**Q:** I read where dormant oil will remove the blue color from Colorado blue spruce. Is the loss of color permanent?

**A:** It has been our experience that the blue color, which is a waxy exudate, normally returns within a month.

**Q:** How do you treat the soil to prevent root graft transmission of Dutch elm disease?

**A:** According to the Vapam label from Stauffer Chemical Co., dilute one part Vapam to three parts water. Drill holes approximately 3/4 to 1 inch in diameter, 15 inches deep, and 6 to 9 inches apart. Fill each hole with diluted Vapam to within 2 inches of the soil surface.

Make a line of treatment sufficiently long to kill all roots of the adjacent trees that are likely to be root-grafted. Apply the chemical slowly and carefully to avoid overflowing the drilled holes and tamp each hole until closed. Allow at least two weeks after treatment before removing the diseased trees.

**Q:** I recently came across the term  $LC_{50}$  and thought it was a misprint for  $LD_{50}$ , but I have since seen it again in print. I have not been able to find anyone who knows what it means (if anything). Can you help?

**A:**  $LC_{50}$  is the median lethal concentration rather than the median lethal dose ( $LD_{50}$ ). It is often used to measure the toxicity of a chemical present in air or water.

**Q:** Do fungicides protect turfgrass growth that occurs after the application?

**A:** Contact fungicides do not. Systemic fungicides are absorbed by the roots and translocated throughout the plant system. Newly emerging leaves may contain sufficient concentrations for protection against certain infectious organisms.

**Q:** How long do you have to wait to reseed a lawn after applying broadleaf herbicides?

**A:** In general, a waiting period of three to six weeks is recommended before reseeding since these herbicides can cause seedling injury.

Recent research has shown that when using a slicer-seeder herbicides could be applied at or prior to seeding with no significant reduction in turf stand.

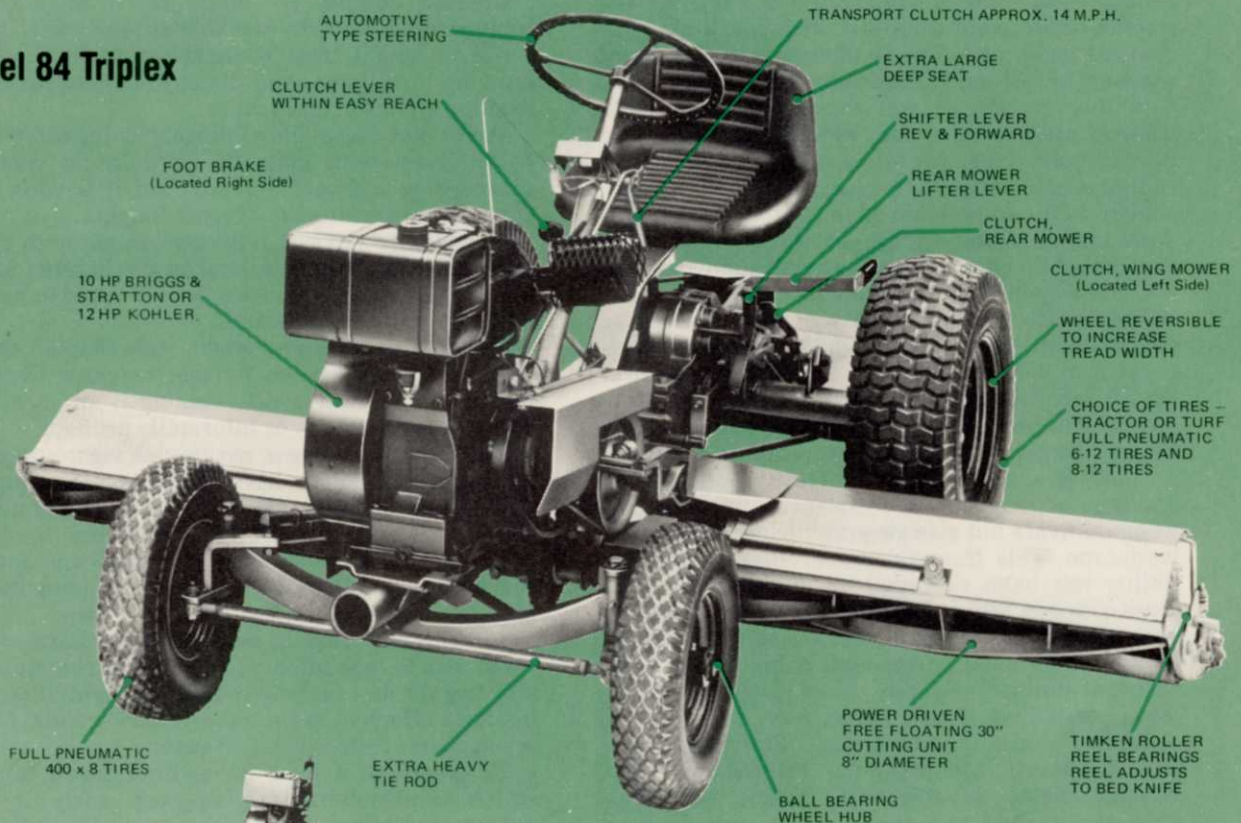


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# JUNIPERS THRIVE IN VARIOUS SOILS, SUIT MANY PLANTING DESIGNS

By Douglas Chapman, Horticulturist, Dow Gardens, Midland, Mf

If used correctly, cultivars of juniper (*Juniperus chinensis*, *communis*, *horizontalis*, and *sabina*) and Eastern Redcedar (*Juniperus virginiana*) can add variety and low maintenance to the landscape while being tolerant of urban conditions. Their ultimate height varies from 6 inches (native *Juniperus horizontalis*) to 40 feet (Eastern Redcedar). Junipers thrive in conditions varying from swamp-water sand (Eastern Redcedar) to well-drained rocky sites. They will grow in the shade of a swamp or full sun of foundation plantings.

Juniper thrives in soil conditions from well-drained sand to heavy, yet well-drained clay. The pH can vary from 5.0 to 7.0 with little problem. Junipers can be used in mass plantings, hedges, shelter belts, foundation plantings, and rock gardens, in fact, almost any application. They thrive in full sun while only tolerating partial shade, in fact, becoming open and leggy in shady conditions.

The insects and diseases are many, including cedar apple rust, twig blight (*Phomopsis juniperovora*), web worm, scale, mites, and bagworm (in Illinois, Indiana, and Missouri), but only a few are catastrophic. The catastrophic pests are twig blight (*Phomopsis juniperovora*), scale and mites.

There is a tremendous varietal variation as to *Phomopsis* (twig blight) resistance, not only between cultivars but also geographic locations in the landscape. This tremendous variation of susceptibility has been surveyed by many of the land grant colleges. When designing a planting, checking with your local Cooperative Extension Service for an approved list is paramount. A few of the most resistant juniper varieties, as reported by Laemmlen, Michigan State University, included *J. chinensis* 'Ames,' 'Armstrongii,' 'Fairview,' 'Hetzii,' 'Keteleeri,' 'Mountbatten,' 'Pfitzeriana,' 'Pfitzeriana Aurea,' 'Pfitzeriana Compacta,' *sargentii*, *procumbens*, and to a slight extent, *procumbens* 'Nana'; *J. horizontalis* Douglasii, 'Emerald Spreader,' and 'Wiltonii'; and *J. sabina* 'Arcadia,' 'Broadmoor,' and 'Von Ehron.' Moderate success has been achieved when spraying several times (two minimum) with Benlate and a wetting agent. Use of chemicals during a cool, wet spring, when the disease is rampant, has met with varying results.

Scale and mites can be severe problems. Many junipers that stop growing are suffering from a severe mite infestation which occurs during the heat of summer. Control is relatively easy with a miticide or ovicide when a slight yellowing or bronzing of the foliage becomes apparent, symptomatic of a heavy infestation.

The only effective way to discuss junipers is by cultivar. The over 170 cultivars available in the trade, as reported by Wyman, make this an exciting yet confused group. Further, each year additional varieties are being selected and introduced.

Therefore, one should be continually trying new cultivars to add resistance and variety in the landscape. The following discussion of cultivars is designed to assist landscape architects and grounds managers make effective decisions, reducing maintenance while improving the quality of the landscape.

**Chinese Juniper** (*J. chinensis*) is an exciting juniper when considering the many cultivars. They range in height from 12 inches to 15 feet, prefer growing in full sun, and display a broad range of exciting greens in landscapes.

'Ames' has a steel blue foliage, turning somewhat paler green with maturity. Initially, it was introduced as a dwarf, but we find it is wide and spreading, reaching 3 to 4 feet in height.

'Armstrongii' is a sort of Pfitzer Juniper with a softer blue-green foliage, taking on the habit of Compact Pfitzer, rarely reaching over 3½ feet in height while being quite horizontal.

'Blaauw' is a semi-upright vase-shaped shrub with a rich blue-green foliage, reaching about 4 feet in height and width, making it an excellent hedge plant; formally or informally pruned.

'Fairview' is a narrow, pyramidal, vigorous growing plant with silver berry-like cones developing during late summer and early fall. This cultivar shows resistance to twig blight and mites.

'Hetzii' is a large, upright growing shrub, reaching 15 feet in height and width at maturity. Its foliage is dense, being lightly bluish-green.

'Iowa' is reported in some areas to have slight resistance to twig blight and is a somewhat upright growing shrub, reaching 10 feet in height. It is particularly effective in formal areas where that blue-green coarse foliage can add variety.

'Keteleeri' is a light to medium green foliage which is somewhat grayish-green early in the season, becoming a light green later. The habit of growth is broadly pyramidal with a good strong central leader. This plant is extremely effective in mass plantings or as informal hedges.

'Mint Julep' is an introduction of Monrovia Nursery. Its habit is somewhat upright, spreading with arching branches while not being nearly as horizontal as Pfitzer Juniper with a brilliant light green foliage. It is a uniquely shaped vigorous addition to the informal landscape.

'Mountbatten' is a 20-foot, dense, somewhat compact, narrow pyramidally-shaped tree. The foliage is a steel blue-green, reaching 18 to 20 feet in height.

'Pfitzeriana' is probably the most widely planted of the juniper types. Its broad spreading form, which reaches 5 to 6 feet in height and 10 feet in width, gives almost a fountain-like appearance. It is effective in mass plantings or as specimen shrubs. The light green foliage and habit are characteristic.





**Mint Julep**, a cultivar of Chinese Juniper (*J. chinensis*), spreads brilliant light green foliage.

'Pfitzeriana Compacta' is a dwarf or compact Pfitzer with gray-green foliage. It is slower growing and well suited to foundation planting. One must mulch late plantings heavily as winter injury can be a problem when planted in September and October.

Sargentii, a low-spreader juniper, 18 to 24 inches in height, with a 6 to 8-foot spread, is quite regular, giving a formal appearance to the area. It can be effective in mass plantings or as a ground cover with exciting blue-green foliage. Sargent Juniper shows excellent resistance to twig blight.

Procumbens (Japanese Garden Juniper), now listed as *J. chinensis procumbens*, is one of the premier juniper types. It reaches 12 to 28 inches in height with a 5 to 10-foot spread. Its light green foliage is exciting, allowing it to adapt well as a ground cover or specimen plant. It is extremely effective in beds or mass plantings, being contained easily with light pruning. In Michigan, *Phomopsis* (twig blight) rarely develops, but mites can become a problem.

Procumbens 'Nana' (Dwarf Japanese Garden Juniper) is very slow growing and considerably more compact. It may be used as a ground cover in rock gardens or in open areas. In Michigan and Ohio twig blight is an extreme problem. This plant has a place in the landscape, but it is so slow growing that any slight damage can often result in a plant that decreases in stature. It should be used sparingly in Michigan, but Dirr has reported few problems in Illinois. Again, check your local Cooperative Extension Service.

**Common Juniper** (*J. communis*) is native to a broad area of the United States. It should be noted though that provenance is important. Plants doing extremely well in New England will not always flourish in Pennsylvania. The habit of this small tree is somewhat ascending, reaching 6 to 12 feet in height. Wyman reported Common Juniper reaching 36 feet in the wild. The plant is sprawling with a fine needle-like foliage which is gray to blue-green in the summer, taking on a somewhat yellowish cast during the fall months. The cultivars of this group are well discussed in literature, but one should visit local nurserymen or the Cooperative Extension Service to obtain information as to local adaptation.

**Creeping Juniper** (*J. horizontalis*) is an exciting native ground cover plant. Although there are many varieties in this group which tolerate hot, dry, sunny locations, it is exciting when used in

rock gardens, foundation plantings, or mass plantings for erosion control. Many of the cultivars are extremely susceptible to twig blight; therefore, I shall only discuss the few which are showing good or almost complete resistance.

'Douglasii' is a very horizontal, rapid growing shrub. It reaches 12 to 18 inches in height and 6 to 8 feet in width. The blue-green foliage of summer often turns somewhat purplish throughout the winter months, adding additional color to the landscape.

'Emerald Spreader' is a low growing form, rarely over 6 to 8 inches in height with a light open habit. Its brilliant mint-green foliage is a great addition to the landscape, held year round.

'Wiltoni' or 'Blue Rug' is a very horizontal form, reaching 6 to 8 inches in height with a spread of 6 to 8 feet. Once established, this plant can grow quite rapidly.

**Savin Juniper** (*J. sabina*) and its cultivar are an exciting addition to the landscape. They range in height from 1 to 6 feet with a 5 to 10-foot spread. The species has dark green foliage in the summer, becoming a dull green during the winter months. It does extremely well on our high pH soils.

'Arcadia' has a similar habit of growth as var. *tamariscifolia* while being more prostrate, growing one foot in height and 3½ feet in width. The foliage is predominately grass green. 'Arcadia' shows good resistance to twig blight.

'Broadmoor,' a dwarf low-spreading shrub which tends to build up from the center with age, is unique in habit and color. The color, early in the season, is a brilliant mintgreen, becoming a soft gray-green during late summer, fall, and winter. 'Broadmoor' rarely goes over 18 inches in height while being five to 10 feet across.

'Von Ehron' is a vase-shaped shrub, 6 feet by 10 feet in the landscape, while reaching 15 feet by 45 feet, according to Wyman. The foliage is a light green. 'Von Ehron' has few problems while being extremely resistant to juniper twig blight.

**Eastern Redcedar** (*J. virginiana*), a native with an extensive range covering most of the area east of the Mississippi, thrives in well-drained, gravelly, high-water table soils but will tolerate almost any diverse soil condition. When young, it is fairly tolerant of shade but thrives in sunny, open areas. It is an excellent specimen or mass planting tree useful in hedges, windbreaks, or native planting. It reaches 40 to 50 feet with a 10 to 20-foot spread. Resistance to twig blight should be paramount in selection of cultivars. Some of the tree forms which show good twig blight resistance include 'Burkii,' 'Cupressifolia,' 'Glauca,' and 'Hillii.'

Junipers and Eastern Redcedar are extremely tolerant of many urban conditions. They thrive in droughty-gravelly soils needing little care if the correct plant is selected. That correct plant is one that will not outgrow its area or be attacked by mites or juniper twig blight. Juniper adds another dimension to our landscape with a narrow-leaf evergreen which thrives under severe winter or summer conditions. It is highly competitive and, therefore, should not be used around every tree, but only trees which are deep rooted and effective competitors, e.g., Bur Oak. **WTT**



## CLASSIFIEDS

### CLASSIFIED CLOSING DATES:

October issue closes September 4  
November issue closes October 8  
December issue closes October 30

When answering ads where box number only is given, please address as follows: Box number, % Weeds Trees and Turf, Dorothy Lowe, Box 6951, Cleveland, Ohio 44101.

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**FOR SALE — SKY-WORKERS.** 1-36 ft. Sky-Worker model 1035A, with flat deck, new unit guarantee. 1-45 ft. Sky-Worker model 1044. Aerial Lift Repair, 571 Plains Road, Milford, Conn. 06460. Phone 203 878-0694.

**FOR SALE: Three spray trucks,** 1976 and 1977 Chevy. C-60's, completely equipped with 1,200 gallon steel tank, mechanical agitation, Bean 20-20 pump, Hannay electric reel, hose, etc. Complete units, excellent condition, ready for immediate use. Will sell separate or special combined price. Phone 502 897-5201 day or 502 896-0879 nights.

### SEEDS

**SOD QUALITY Seeds:** Adelphi, Glade, Cheri, Nugget, Merion, Fyking, Majestic, Baron & Touchdown bluegrasses, also fine fescues, Manhattan ryegrass. Custom mixing available. Michigan State Seed, Grand Ledge, Michigan 48837. Phone 517 627-2164.

**LAWN SEED. Wholesale.** Full line of top quality grasses. Improved bluegrass varieties, fine fescues and fine bladed ryegrasses. We specialize in custom mixing. Olinger Seed Company, 2705 Wingate Avenue, Akron, Ohio 44314. Call collect 216 753-2259.

**JOJOBA SEED PACKETS \$1.50.** Jojoba Oil \$1.75. KSA Jojoba, 19025 Parthenia, No. 200, Northridge, CA 91324.

### HELP WANTED

**ADVERTISING SALES POSITION AVAILABLE** with a growing specialty agri. magazine, Chicago territory. Requires individual with 1 to 2 years chemical and equipment sales experience in the agri. or specialty agri. market at the distributors level. Ad. space sales experience desirable but not required. Salary plus commission, all expenses, a strong benefit program and plenty of room to advance. Reply to Box 243, Weeds, Trees & Turf, Box 6951, Cleveland, Ohio 44101.

**JOB OPENING IN HORTICULTURE.**

Position: Working supervisor and gardener for Kentucky estate. Requirements: Proficiency in horticulture, landscape, greenhouse and garden management. Knowledge of aboriculture and landscape operations highly desirable. References required. For terms and personal resume please contact Mrs. Dillon, P.O. Box 61334, Houston, 77208.

**SUPERVISOR: Bell Telephone Laboratories,** Holmdel, N.J., has an immediate opening for a grounds maintenance supervisor. This position calls for professional planning and direction of landscape, grounds maintenance and snow removal programs. Please send resume to J.J. Lenox, Bell Telephone Laboratories, Room 3C-340, 600 Mountain Avenue, Murray Hill, New Jersey 07922.

**LANDSCAPE SUPERINTENDENT —** Houston's fastest growing landscape contractor is offering a position of unlimited potential. Excellent salary, year round security, bonuses, company transportation, paid vacations, good group health insurance and more. A steady work history in commercial landscape and sprinkler installation is required. Responsibilities include scheduling, supervising and managing all material and labor for 5 crews. Contact Harry Thompson immediately for an interview at 713 464-0016 or 713 492-7868.

**NATIONAL SALES POSITION:** Sales experience and turf products background required. Duties will concentrate on establishing and maintaining national distributor network for grounds maintenance machinery manufacturer. Reply to Box 250, Weeds, Trees & Turf, Box 6951, Cleveland, Ohio 44101.

### FOR SALE

**VAIL, CO.** year-round nursery, snow plow business, located on 1 acre parcel with two commercial buildings, rental income. Includes 3 loaders, 2 dump trucks, 5 pick-up trucks with snow plows. 8 year est. business. 303 476-3433.

**SPRAYERS — FACTORY DIRECT,** professional gardeners, turf applicators, proven dependability, unconditionally guaranteed. Black River Sprayers, Box 824, Andrews, S.C. 29510.

**LIQUID FERTILIZING and tree removal company** established 1974 with major growth each year. Year round business located in the western suburbs of Chicago. Will divide. 312 584-5753.

**ESTABLISHED LAWN & TURF irrigation company** in Michigan, machinery, tools, inventory, vehicles, misc. Purchaser shall receive client list and any open contracts at time of sale. Company is very strong in

Continues on page 120





Cut Overseeding Rates Up To  
50% with a Great *Poa trivialis*

# SABRE

**There's no other turf grass quite like it.**

The first U.S. variety of *Poa trivialis* granted a Plant Variety Protection Act Certificate, Sabre is a dark green, fine-bladed turf grass that creates an absolutely superb green when overseeded on dormant turf such as Bermuda.

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An extremely shade tolerant grass, Sabre is an ideal component in an overseeding mixture because it will disappear very rapidly when the hot weather arrives, thus clearing the way for the emerging Bermuda grass to come on.

You can also count on Sabre to be free of *Poa annua*.



**SABRE—add it to your overseeding mixture and you'll be amazed at the beauty you have created.** (Sabre - P.V.P. No. 7700104)



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## Classifieds

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service and installation. Terms available. Reply to Box 248, Weeds, Trees and Turf, Box 6951, Cleveland, Ohio 44101.

### BUSINESS OPPORTUNITIES

**LEARN LANDSCAPING** and the growing of plants at home. Start a satisfying business or hobby. Free booklet. Lifetime Career Schools, Dept. A-829, 2251 Barry Avenue, Los Angeles, Ca. 90064.

**WANT TO BUY OR SELL a golf course?** Exclusively golf course transaction and appraisals. Ask for our catalog. McKay Golf & Country Club Properties, 15553 N. East Street, Lansing, Michigan 48906. Phone 517 484-7726.

**ESTABLISHED LAWN & TURF irrigation company** in Michigan, machinery, tools, inventory, vehicles, misc. Purchaser shall receive client list and any open contracts at time of sale. Company is very strong in service and installation. Terms available. Reply to Box 249, Weeds, Trees and Turf, Box 6951, Cleveland, Ohio 44101.

### MISCELLANEOUS

**START YOUR LANDSCAPING career now!** Write: School of Landscape Design and Sales. Lake City Community College,

Lake City, Florida 32055. Fully accredited and V.A. approved.

**MILKY SPORE BACTERIA** — For control of Japanese Beetles and certain other white grubs. Protect your turf . . . apply in fall, for fall and spring protection. Effective up to 20 years. USDA developed. Lb. per 4,000 sq. ft. Catalog, 1 lb. \$14.89; 5 lb. \$69.00; 25 lb. \$299.95. Add 5% for prepaid shipping. Mellinger's, 2304C Range, North Lima, Ohio 44452.

**TREE PROBLEMS** — Botanical, legal and appraisals. For directory of members of American Society Consulting Arborists in U.S. and Canada, write: Executive Director ASCA, 12 Lakeview Avenue, Milltown, N.J. 08850. 201 821-8948.

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## NEXT MONTH IN WTT

We will resume our regular departments, many of which had to be cut this month for our special Buyer's Guide issue. Look for part 4 of the Turf Management Series on "turf care and maintenance techniques."



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